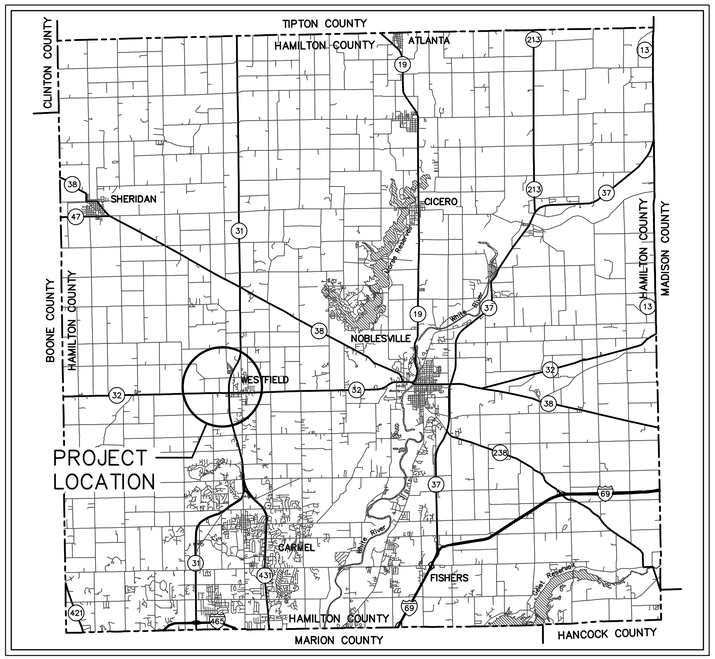
CONSTRUCTION PLANS
FOR
MAINSTREET HEALTH AND WELLNESS SUITES AT WESTFIELD
186TH STREET
WESTFIELD, INDIANA

N.W. 1/4 SECTION 36, T19N, R3E, WASHINGTON TOWNSHIP, HAMILTON COUNTY



LOCATION MAP

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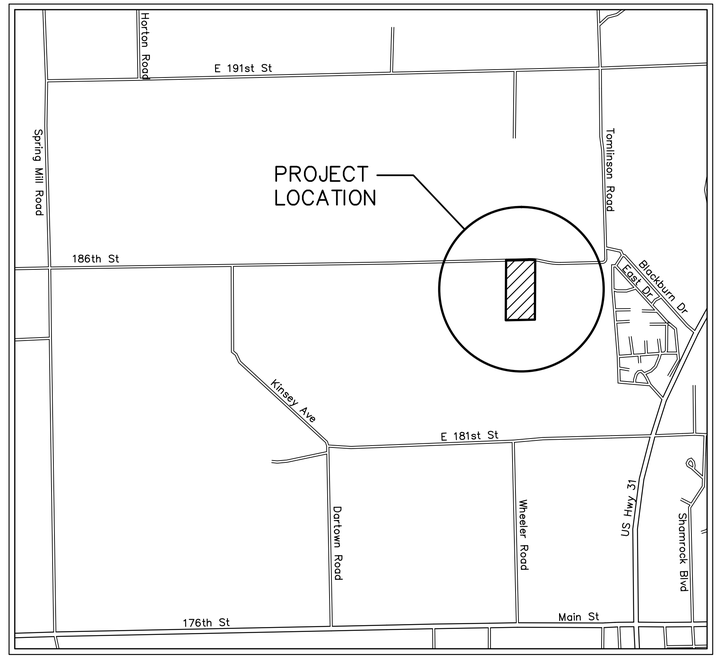

VICINITY MAP

NOT TO SCALE

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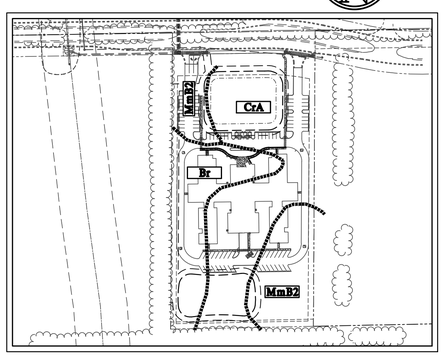
PLAN DATE: 02/03/12



SOILS MAP

NOT TO SCALE

REV	DATE	DESCRIPTION
1	03/09/12	TAC COMMENTS

DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH THE HAMILTON COUNTY SURVEYOR'S OFFICE AND THE CITY OF WESTFIELD CONSTRUCTION SPECIFICATIONS AND STANDARD DETAILS.

PLANS PREPARED FOR:

MAINSTREET PROPERTY GROUP, LLC
P.O. BOX 767
CICERO, INDIANA 46034

PLANS PREPARED BY:

AMERICAN STRUCTUREPOINT INC.
7260 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com

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.
811 OR 1-800-382-5544
CALL TOLL FREE
– INDIANA UNDERGROUND –

KEVIN D. KRULIK
REGISTERED
No. 10606572
STATE OF INDIANA
PROFESSIONAL ENGINEER

KEVIN D. KRULIK, PE 02/03/2012

APPROVAL PENDING - NOT FOR CONSTRUCTION

C0.1
JOB# 201100738

PRINT DATE: 3/9/12
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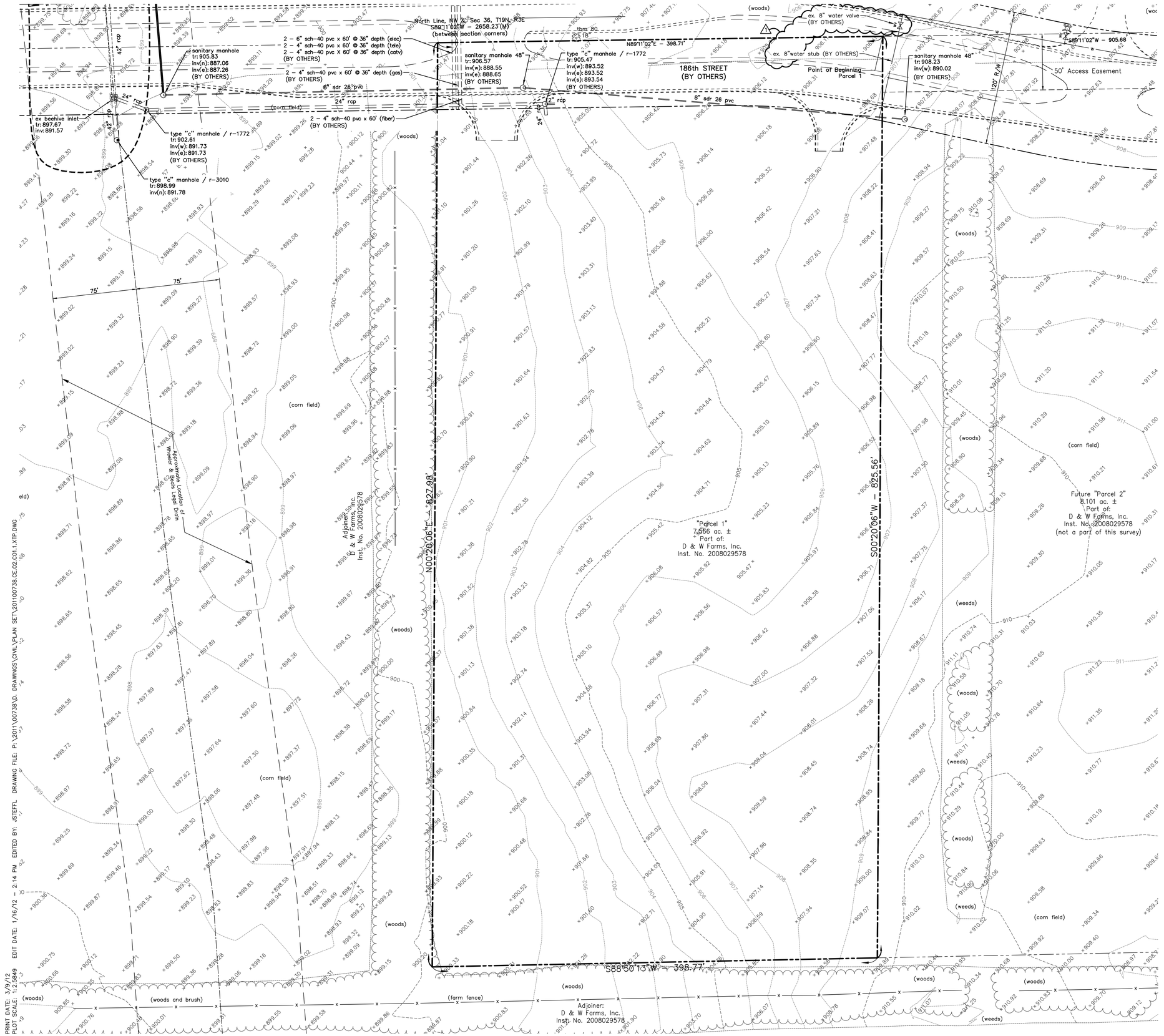

0' 40' 80'

SCALE: 1"=40'

EXISTING LEGEND

Beehive Inlet

Tree

PROPERTY DESCRIPTION

A part of the Northwest Quarter of Section 36, Township 19 North, Range 3 East of the Second Principal Meridian, in Washington Township, Hamilton County, Indiana, described as follows:

Commencing at the Northeast corner of the Northwest Quarter of said section; thence South 89 degrees 11 minutes 02 seconds West 905.68 feet along the north line of said quarter section to the point of beginning: thence South 0 degrees 20 minutes 06 seconds West 825.56 feet; thence South 88 degrees 50 minutes 13 seconds West 398.77 feet; thence North 0 degrees 20 minutes 06 seconds East 827.98 feet to the aforementioned north line; thence North 89 degrees 11 minutes 02 seconds East 398.71 feet along said north line to the point of beginning and containing 7.566 acres more or less:

NOTES:

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BENCH MARK INFORMATION
NAVD 88 DATUM USING OPUS SOLUTION
#11–58322240 DATED 8–15–2011

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AMERICAN STRUCTUREPOINT INC.

KEVIN D. KRUNK
REGISTERED
No. 10606572
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY

EXISTING TOPOGRAPHY / DEMOLITION PLAN

PREPARED FOR:

MAINSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:

MAINSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
WESTFIELD, INDIANA

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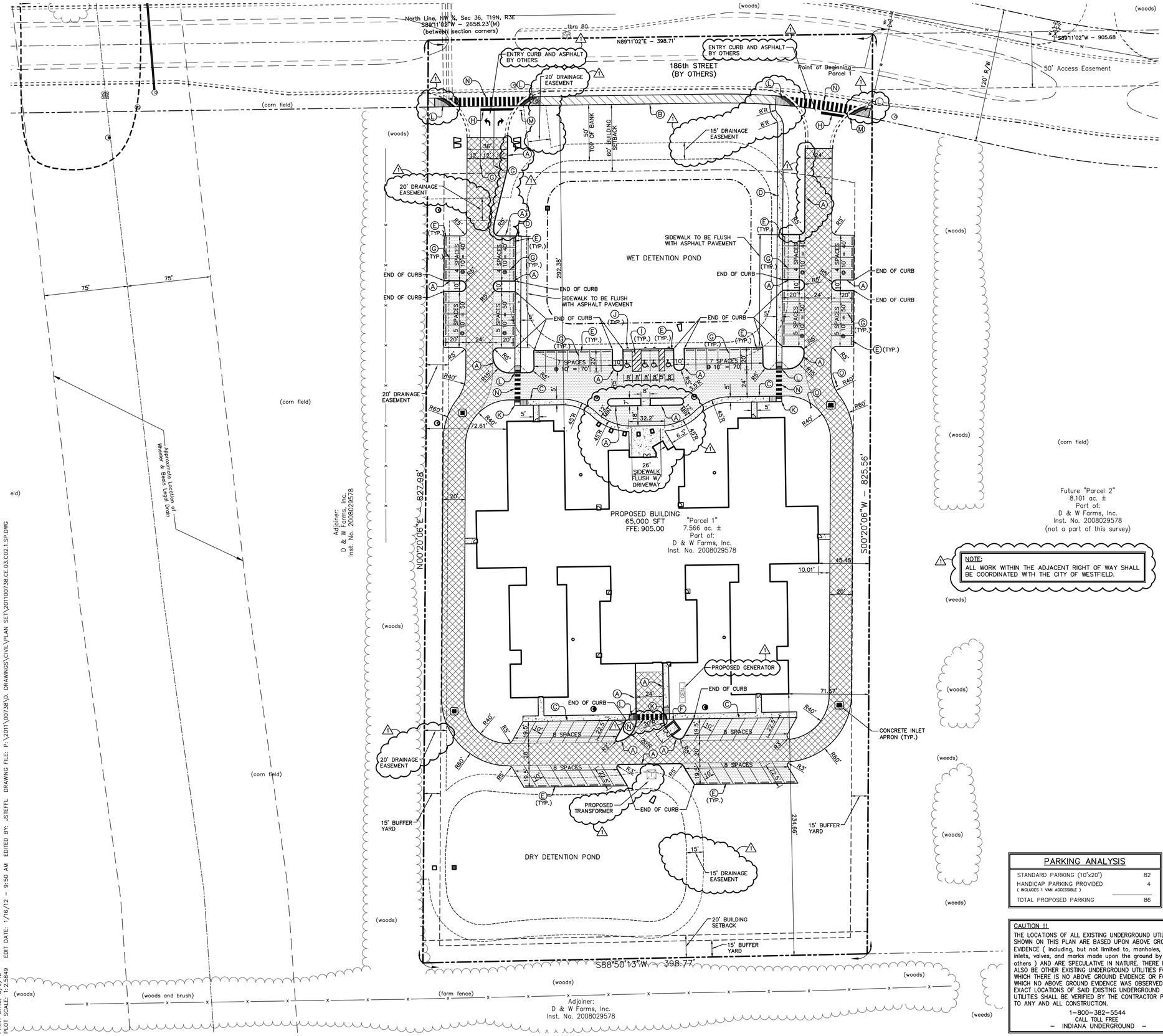

0' 40' 80'

SCALE: 1"=40'

PROPOSED SITE LEGEND

- LIGHT DUTY PAVEMENT
- HEAVY DUTY PAVEMENT
- CONCRETE
- ASPHALT MULTI-USE PATH
- (A) 6" STRAIGHT CONCRETE CURB
- (B) 8' ASPHALT MULTI-USE PATH
- (C) COMBINED CURB & WALK
- (D) CONCRETE SIDEWALK
- (E) PARKING BUMPER
- (F) DUMPSTER ENCLOSURE (SEE ARCH. PLANS)
- (G) 4" SOLID WHITE, PAINT LINE
- (H) 24" STOP BAR, WHITE, THERMOPLASTIC
- (I) 4" SOLID BLUE, PAINT LINE (A.D.A SPACE)
- (J) ADA PARKING SIGN (VAN ACCESSIBLE AS NOTED)
- (K) A.D.A. RAMP (TYPE "K")
- (L) A.D.A. RAMP (TYPE "C")
- (M) STOP SIGN
- (N) 24" SOLID WHITE, PAINT LINE (CROSSWALK)
- (O) "ONE WAY DO NOT ENTER" SIGN
- HANDICAP ACCESSIBLE PARKING SPACE
- (1) PROPOSED ELECTRIC TRANSFORMER

SITE NOTES

1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
2. ALL PARKING STRIPES ARE TO BE 4" PAINTED (WHITE). HANDICAPPED ACCESS AISLES SHALL BE 4" PAINTED (BLUE).
3. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT OR FACE OF CURB, UNLESS NOTED OTHERWISE.
4. ALL DIMENSIONS ARE TO FACE OF BRICK OR FACING MATERIAL, WHERE APPLICABLE.
5. ALL DIMENSIONS ARE PARALLEL WITH, OR PERPENDICULAR TO BASE LINES, PROPERTY LINES OR BUILDING LINES UNLESS NOTED OTHERWISE.
6. 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.
7. PROVIDE SMOOTH TRANSITIONS FROM NEW AREAS TO EXISTING FEATURES AS NECESSARY.
8. 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.
9. 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.
10. 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.
11. ALL UTILITY TRENCHES WITHIN 5 FEET OF PAVEMENT SHALL BE COMPLETELY BACKFILLED WITH GRANULAR MATERIAL.
12. ALL ASPHALT TO BE IN ACCORDANCE WITH I.N.D.O.T. STANDARD SPECIFICATIONS RELATIVE TO MATERIAL, MIX, PLACEMENT AND WORKMANSHIP.
13. CHAMFER ENDS OF ALL CURBS.
14. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
15. ALL SIDEWALKS SHALL COMPLY WITH A.D.A. STANDARDS, MAX. CROSS SLOPE OF 1:50 & MAX. SLOPE OF 1:20.
16. EXISTING PAVEMENT TO BE SAWCUT IN ALL AREAS WHERE INDICATED NEW PAVEMENT TO JOIN EXISTING.

PROPERTY DESCRIPTION

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PARKING ANALYSIS

STANDARD PARKING (10'x20')	82
HANDICAP PARKING PROVIDED (INCLUDES 1 VAN ACCESSIBLE)	4
TOTAL PROPOSED PARKING	86

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NOTE:

ALL MAINTENANCE OF TRAFFIC SIGNAGE METHODS, MATERIALS AND CONSTRUCTION DETAILS FOR WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL CONFORM TO CITY OF WESTFIELD REQUIREMENTS, INDOT STANDARD DETOUR SHEETS AND SPECIFICATIONS AND THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THIS INCLUDES PLACING ROAD CONSTRUCTION AHEAD SIGNS, LANE MERGING SIGNS, FLASHING ARROW SIGNS, CONSTRUCTION BARRELS, ETC.

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PREPARED FOR:
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109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:
MAINSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
WESTFIELD, INDIANA

SITE PLAN

DATE:	02/03/12
DRAWN BY:	PED
CHK'D BY:	KDK
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1 TAC COMMENTS	03/09/12

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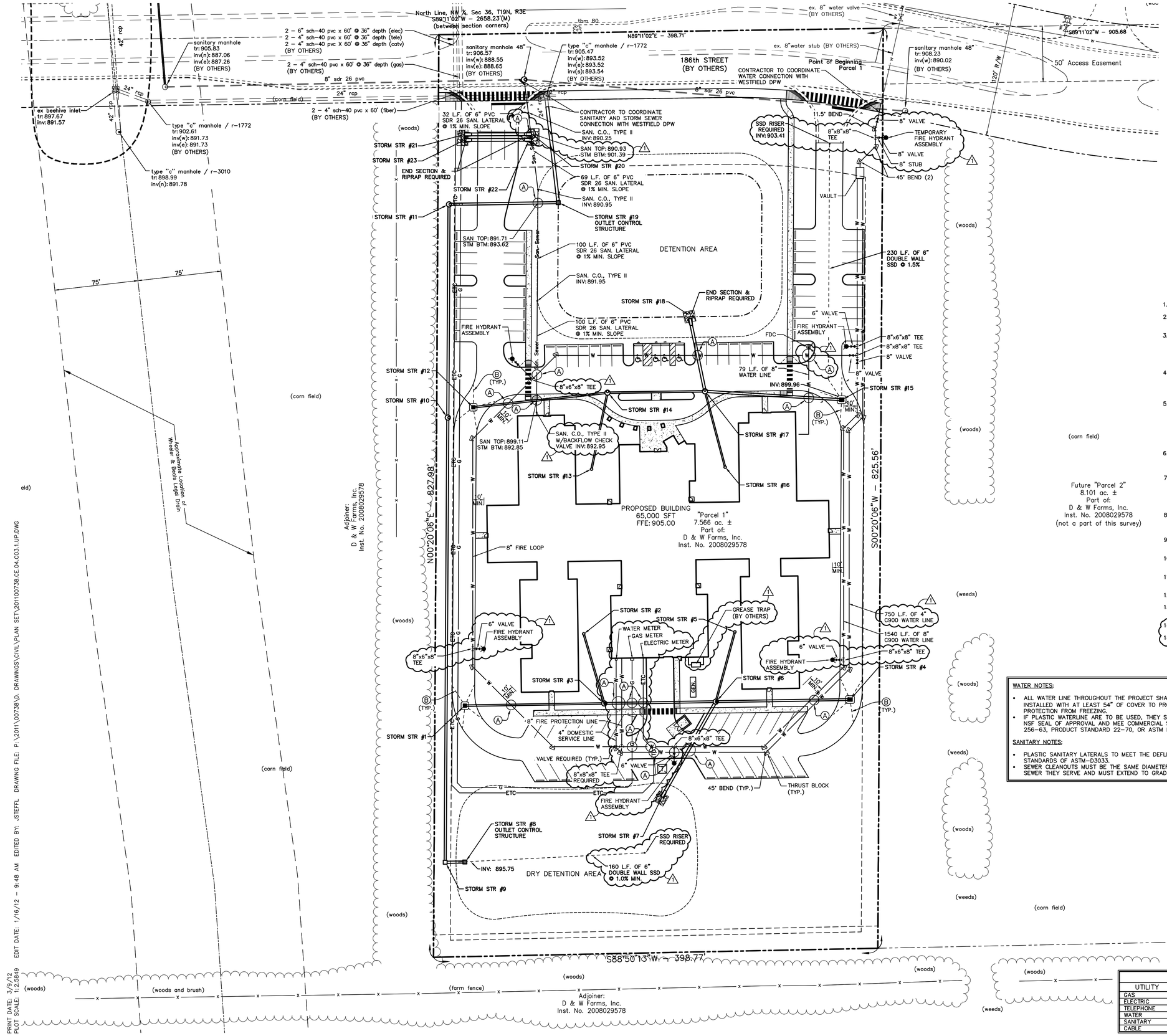

SCALE: 1"=40'

EXISTING LEGEND

- Beehive Inlet
- Tree

PROPOSED UTILITY LEGEND

- San. Sewer — SANITARY SEWER LINE
- G — GAS LINE
- ETC — ELECTRIC/TELEPHONE/CABLE LINE
- W — WATER LINE
- GM — GAS METER
- EMC — ELECTRICAL TRANSFORMER
- VALVE
- HYDRANT
- (A) — 18" VERTICAL SEPARATION REQ'D.
- (B) — 20 LF OF PERFORATED UNDERDRAIN

GENERAL UTILITY NOTES

1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
2. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
3. 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.
4. 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.
5. 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.
6. TRENCHES FOR ALL SANITARY SEWER,STORM SEWER AND WATER MAIN SHALL BE BACKFILLED COMPLETELY WITH GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT. (1)
7. AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
8. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
9. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
10. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
11. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS.
12. INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.
13. ALL SANITARY SEWER LATERALS MUST HAVE LOCATE WIRE RUN WHEN INSTALLING THE LINE.
14. SANITARY SEWER IS NOT WITHIN 50 FEET OF WATER. (1)
15. ALL SSD TO BE INSTALLED SHALL BE SMOOTH BORE DOUBLE WALL.

WATER NOTES:

- ALL WATER LINE THROUGHOUT THE PROJECT SHALL BE INSTALLED WITH AT LEAST 54" OF COVER TO PROVIDE PROTECTION FROM FREEZING.
- IF PLASTIC WATERLINE ARE TO BE USED, THEY SHALL BEAR THE NSF SEAL OF APPROVAL AND MEE COMMERCIAL STANDARD NO. 256–63, PRODUCT STANDARD 22–70, OR ASTM D2241.

SANITARY NOTES:

- PLASTIC SANITARY LATERALS TO MEET THE DEFLECTION STANDARDS OF ASTM–D3033.
- SEWER CLEANOUTS MUST BE THE SAME DIAMETER AS THE SEWER THEY SERVE AND MUST EXTEND TO GRADE.

BENCH MARK INFORMATION
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#11–58322240 DATED 8–15–2011

CPT 800
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ELEV = 898.60

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RAILROAD SPIKE ON THE WEST SIDE OF AN 18" OAK TREE ON THE NORTH PROPERTY LINE IN FENCE ROW 400'± OF EAST OF A DITCH.
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UTILITY CONTACTS

UTILITY	COMPANY	CONTACT	PHONE NO.
GAS	CITIZENS GAS OF WESTFIELD	RICHARD MILLER	317–927–4684
ELECTRIC	DUKE ENERGY	SHIRLEY HUNTER	317–896–6711
TELEPHONE	FRONTIER COMMUNICATION	STEVE COSTLOW	317–984–9010
WATER	WESTFIELD WATER	BRIAN FORKNER	317–804–3100
SANITARY	WESTFIELD WASTEWATER	BRIAN FORKNER	317–804–3100
CABLE	COMCAST	MATTHEW STRINGER	317–774–3384

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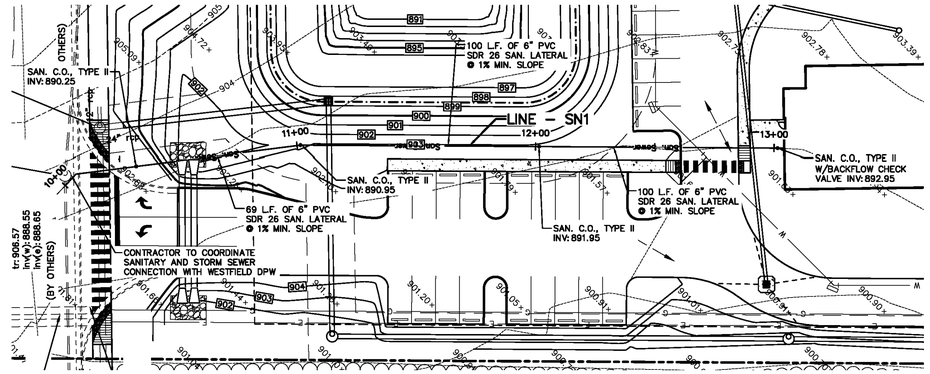

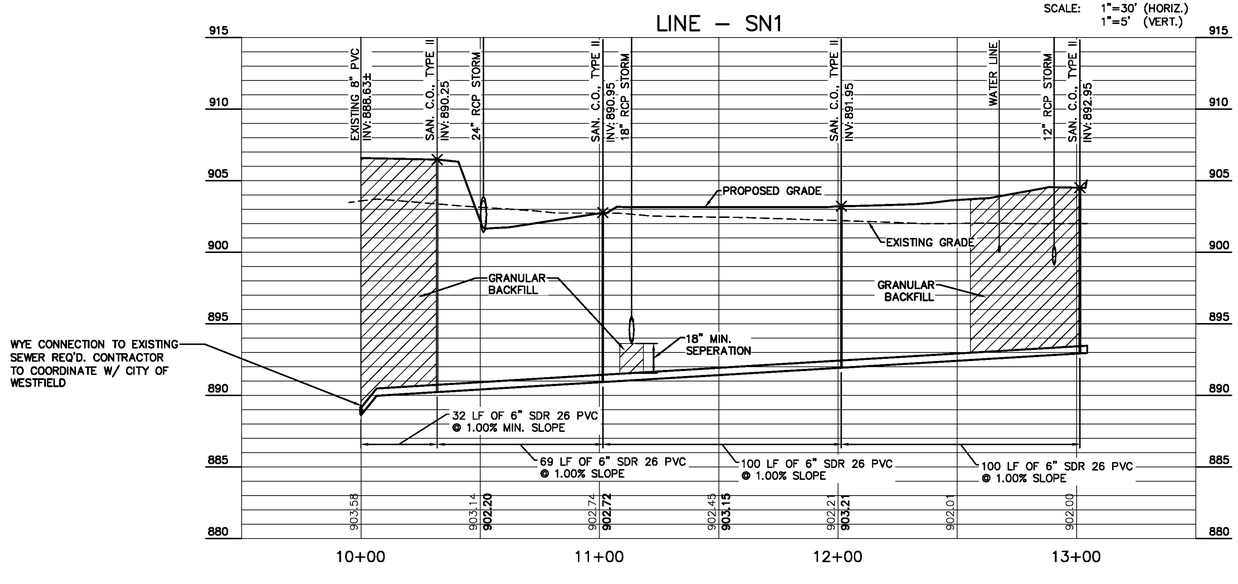

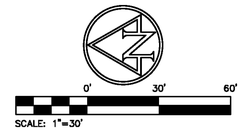

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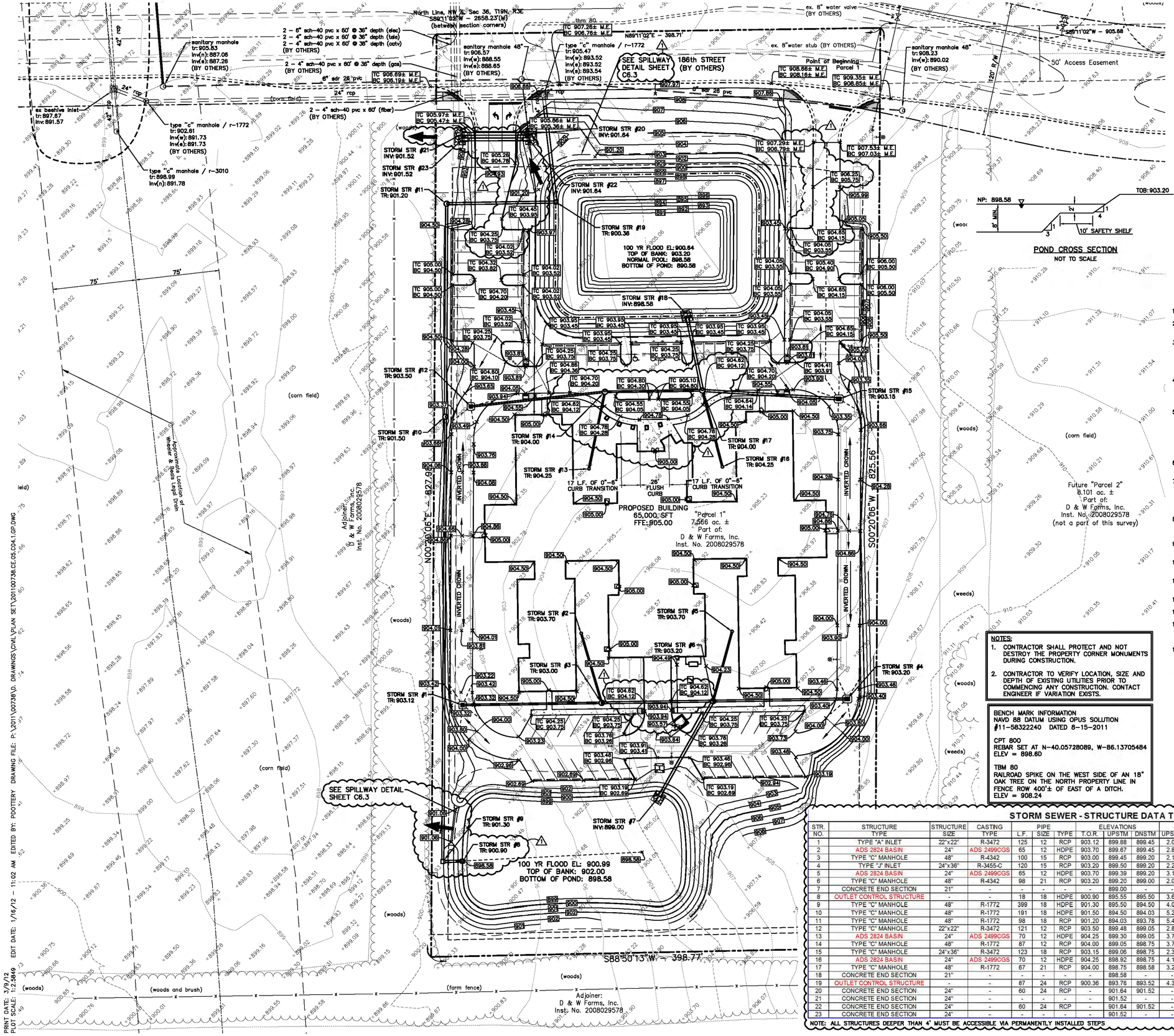

SCALE: 1"=40'

EXISTING LEGEND

- Beehive Inlet
- Tree

PROPOSED GRADING LEGEND

M.E.	MATCH EXISTING
EP	EDGE OF PAVEMENT
BC	BOTTOM OF CURB
TC	TOP OF CURB
000	CONTOURS
	FLOW LINE
TC 000.50 BC 000.00	CURB ELEVATIONS
000.00	SPOT ELEVATIONS
	RIDGE LINE
	FLOOD ROUTE

GENERAL GRADING NOTES

1. ALL WORK TO CONFORM TO STATE AND LOCAL REGULATIONS.
2. SITE GRADING SHALL NOT PROCEED UNTIL EROSION CONTROL MEASURES HAVE BEEN INSTALLED.
3. 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.
4. 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.
5. 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.
6. TRENCHES FOR ALL STORM DRAIN LINES SHALL BE BACKFILLED COMPLETELY WITH GRANULAR MATERIAL IF WITHIN 5 FEET OF PAVEMENT.
7. AFTER STRIPPING TOPSOIL MATERIAL, PROOFROLL WITH A MEDIUM WEIGHT ROLLER TO DETERMINE LOCATIONS OF ANY POCKETS OF UNSUITABLE MATERIAL. THE NECESSITY FOR SUBDRAINS AND/OR REMOVAL OF ANY UNSUITABLE MATERIAL WITHIN THE PROPOSED PARKING AREAS WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
8. PROVIDE POSITIVE DRAINAGE WITHOUT PONDING, IN ALL AREAS. AFTER INSTALLATION, CONTRACTOR TO TEST FOR, AND CORRECT, IF ANY, STANDING WATER CONDITIONS.
9. ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL PAVEMENT AND FINAL GRADE ELEVATIONS.
10. SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE ELEVATIONS INDICATED.
11. ALL STORM SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO LOCAL STANDARDS.
12. INVERTS AT PIPE OUTLETS ARE GIVEN AT END OF PIPE END SECTION.
13. DEBRIS GUARD TO BE INSTALLED AT ALL OPEN ENDED INLETS.
14. DUE TO SITE CONSTRAINTS, THE SITE MAY OR MAY NOT BALANCE. THE CONTRACTOR IS RESPONSIBLE FOR ALL EARTHWORK IMPORTS AND/OR EXPORTS.
15. THIS LOT DOES NOT LIE WITHIN ANY FLOOD HAZARD ZONE AS SCALED FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR HAMILTON COUNTY, INDIANA, COMMUNITY HAMILTON, CITY OF WESTFIELD, COMMUNITY NUMBER 18057C, PANEL NUMBER 0120F, DATED FEBRUARY 19, 2003.

NOTES:
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BENCH MARK INFORMATION
NAVD 88 DATUM USING OPUS SOLUTION
#11-58322240 DATED 8-15-2011

CPT 800
REBAR SET AT N-40.05728089, W-86.13705484
ELEV = 898.60

TBM 80
RAILROAD SPIKE ON THE WEST SIDE OF AN 18" OAK TREE ON THE NORTH PROPERTY LINE IN FENCE ROW 400'± OF EAST OF A DITCH.
ELEV = 908.24

CAUTION !!
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1-800-382-5544
CALL TOLL FREE
– INDIANA UNDERGROUND –

STORM SEWER - STRUCTURE DATA TABLE

STR. NO.	STRUCTURE TYPE	STRUCTURE SIZE	CASTING TYPE	PIPE L.F.	PIPE SIZE	PIPE TYPE	ELEVATIONS T.O.R.	ELEVATIONS UPSTM	ELEVATIONS DNSTM	DEPTH UPSTM	DEPTH DNSTM	GRADE (%)	CONNECT TO STRUCTURE	DIRECTION OF PIPE	REMARKS
1	TYPE "A" INLET	22"x22"	R-3472	125	12	RCP	903.12	899.88	899.45	2.07	2.39	0.35	3	W-E	
2	ADS 2824 BASIN	24"	ADS 2499CGS	65	12	HDPE	903.70	899.67	899.45	2.86	2.39	0.35	3	N-S	
3	TYPE "C" MANHOLE	48"	R-4342	100	15	RCP	903.00	899.45	899.20	2.12	2.57	0.25	6	W-E	
4	TYPE "J" INLET	24"x36"	R-3455-C	120	15	RCP	903.20	899.50	899.20	2.27	2.57	0.25	6	E-W	
5	ADS 2824 BASIN	24"	ADS 2499CGS	65	12	HDPE	903.70	899.39	899.20	3.14	2.84	0.30	6	N-S	
6	TYPE "C" MANHOLE	48"	R-4342	98	21	RCP	903.20	899.20	899.00	2.02	-	0.20	7	N-S	
7	CONCRETE END SECTION	21"	-	-	-	-	-	899.00	-	-	-	-	OUT	OUT	
8	OUTLET CONTROL STRUCTURE	-	-	18	18	HDPE	900.90	895.55	895.50	3.65	4.09	0.25	9	E-W	
9	TYPE "C" MANHOLE	48"	R-1772	399	18	HDPE	901.30	895.50	894.50	4.09	5.29	0.25	10	S-N	
10	TYPE "C" MANHOLE	48"	R-1772	191	18	HDPE	901.50	894.50	894.03	5.29	5.47	0.25	11	S-N	
11	TYPE "C" MANHOLE	48"	R-1772	98	18	RCP	901.20	894.03	893.78	5.47	4.87	0.25	19	W-E	
12	TYPE "C" MANHOLE	22"x22"	R-3472	121	12	RCP	903.50	899.48	899.05	2.86	3.78	0.35	14	W-E	
13	ADS 2824 BASIN	24"	ADS 2499CGS	70	12	HDPE	904.25	899.30	899.05	3.79	3.78	0.35	14	S-N	
14	TYPE "C" MANHOLE	48"	R-1772	87	12	RCP	904.00	899.05	898.75	3.78	4.09	0.35	17	W-E	
15	TYPE "C" MANHOLE	24"x36"	R-3472	123	18	RCP	903.15	899.06	898.75	2.39	3.54	0.25	17	E-W	
16	ADS 2824 BASIN	24"	ADS 2499CGS	70	12	HDPE	904.25	898.92	898.75	4.16	4.09	0.25	17	S-N	
17	TYPE "C" MANHOLE	48"	R-1772	67	21	RCP	904.00	898.75	898.58	3.27	-	0.25	18	S-N	
18	CONCRETE END SECTION	21"	-	-	-	-	-	898.58	-	-	-	-	OUT	OUT	
19	OUTLET CONTROL STRUCTURE	-	-	87	24	RCP	900.36	893.78	893.52	4.33	-	0.30	EX	S-N	
20	CONCRETE END SECTION	24"	-	60	24	RCP	-	901.64	901.52	-	-	0.20	21	E-W	
21	CONCRETE END SECTION	24"	-	-	-	-	-	901.52	-	-	-	-	OUT	OUT	
22	CONCRETE END SECTION	24"	-	60	24	RCP	-	901.64	901.52	-	-	0.20	23	E-W	
23	CONCRETE END SECTION	24"	-	-	-	-	-	901.52	-	-	-	-	OUT	OUT	

NOTE: ALL STRUCTURES DEEPER THAN 4' MUST BE ACCESSIBLE VIA PERMANENTLY INSTALLED STEPS

7995 SHADELAND STATION
INDIANAPOLIS, IN 46256-3969
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com
AMERICAN STRUCTUREPOINT INC.

KEVIN D. KRUEK REGISTERED No. 10606572 STATE OF INDIANA PROFESSIONAL ENGINEER
CERTIFIED BY

PREPARED FOR:
MANSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:
MANSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
WESTFIELD, INDIANA

GRADING PLAN

DATE:	02/03/12
DRAWN BY:	PED
CHK'D BY:	KDK
JOB NO.	201100738

REVISIONS	
1 TAC COMMENTS	03/09/12

SHEET NO.
C4.1
OF

PRINT DATE: 3/9/12
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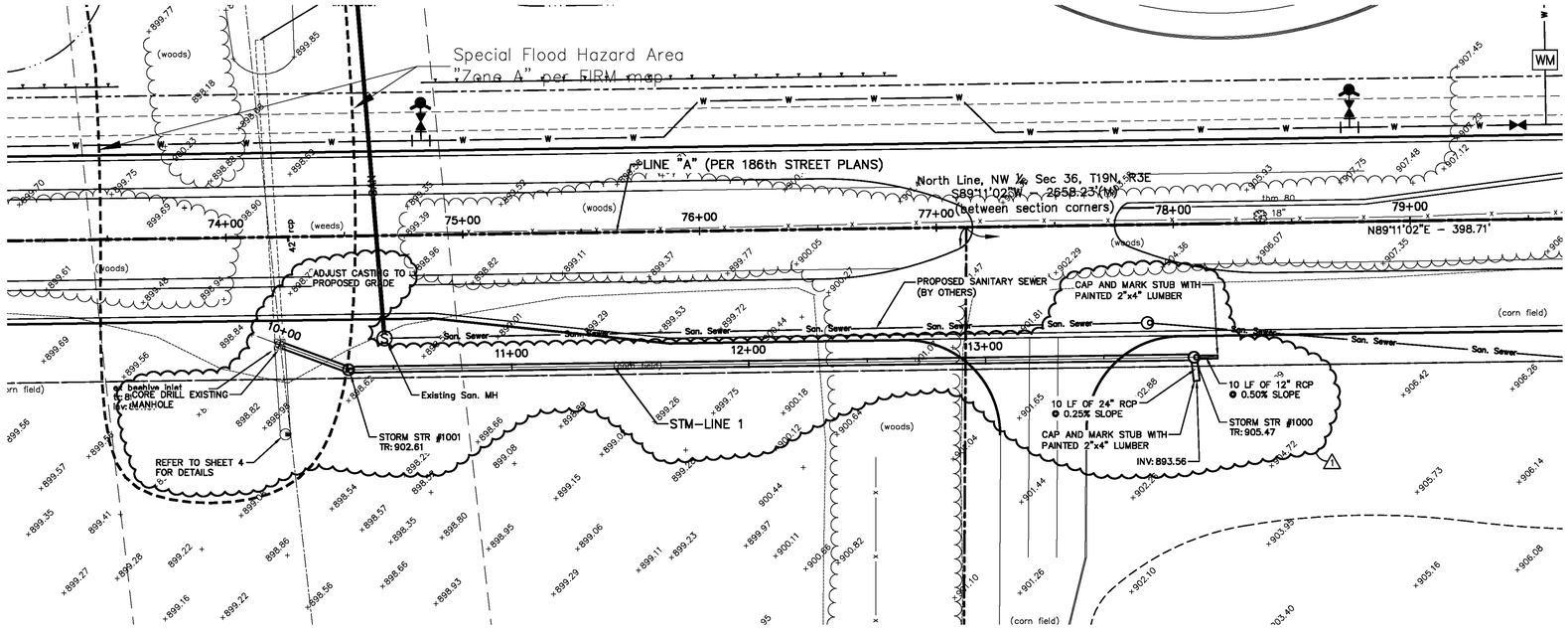
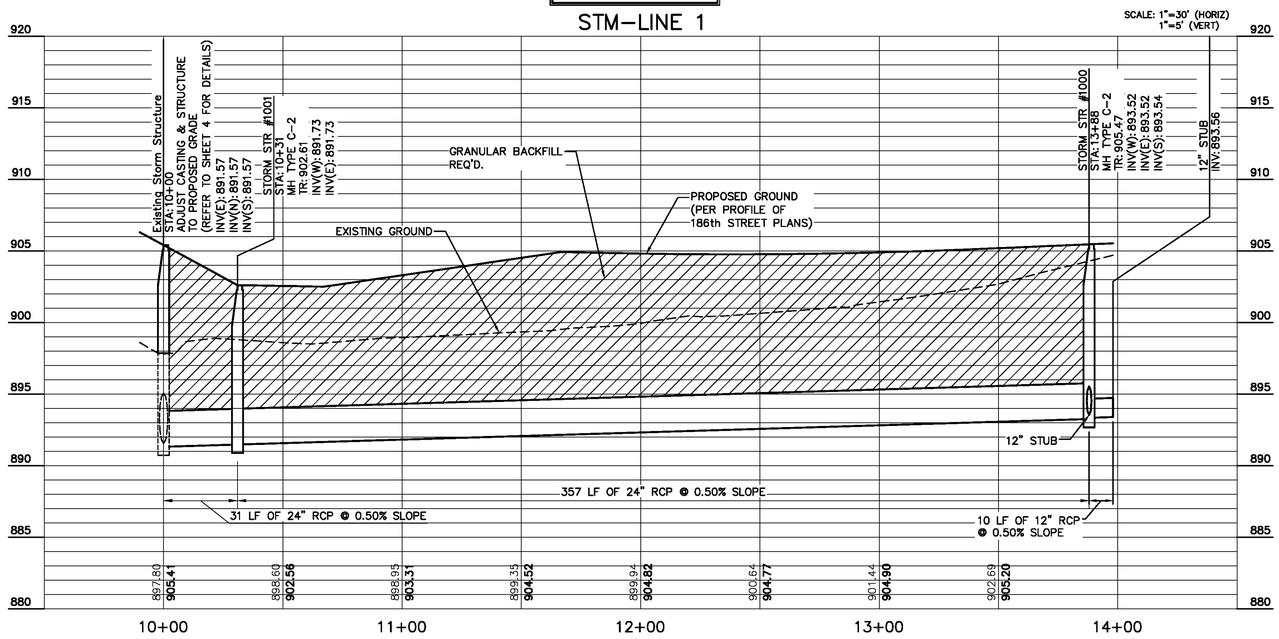


BY OTHERS

STM-LINE 1

SCALE: 1"=30' (HORIZ)
1"=5' (VERT)



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CALL TOLL FREE
– INDIANA UNDERGROUND –

0' 30' 60'
SCALE: 1"=30'

EXISTING LEGEND
- Beehive Inlet
- Tree

7965 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com
AMERICAN STRUCTUREPOINT INC.

KEVIN D. KRUK
REGISTERED
No. 10606572
STATE OF INDIANA
PROFESSIONAL ENGINEER
CERTIFIED BY

OFF-SITE STORM SEWER PLAN & PROFILE (BY OTHERS)

PREPARED FOR:
MAINSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA

PROJECT:
MAINSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
WESTFIELD, INDIANA

DATE:	02/03/12
DRAWN BY:	PED
CHK'D BY:	KDK
JOB NO.	201100738

REVISIONS	
1 TAC COMMENTS	03/09/12

SHEET NO.
C4.2
OF

201100738.CE.06.C04.2.STMPP.dwg

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#11-58322240 DATED 8-15-2011

CPT 800
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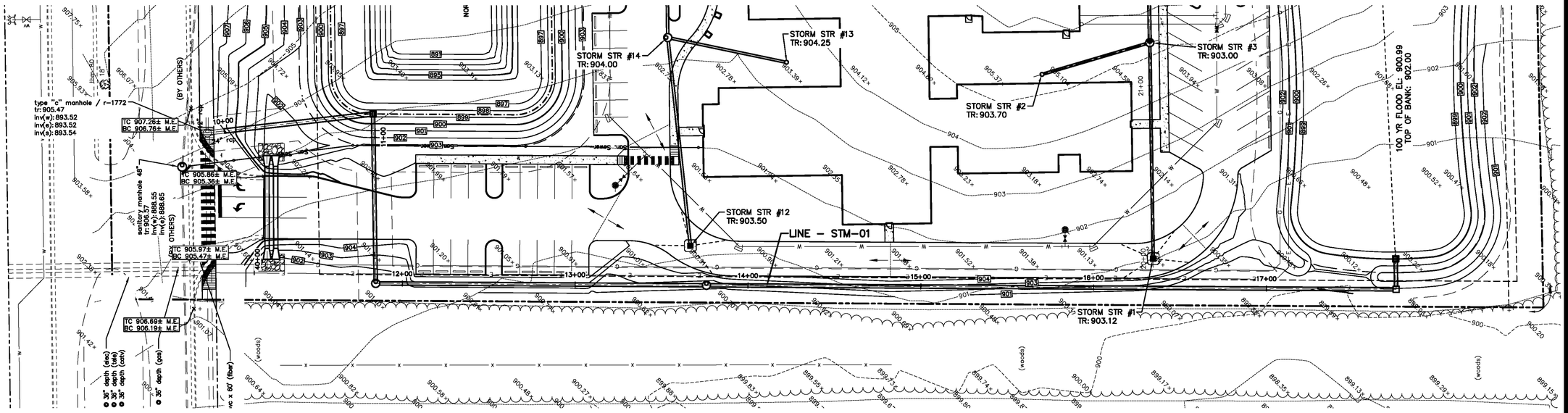

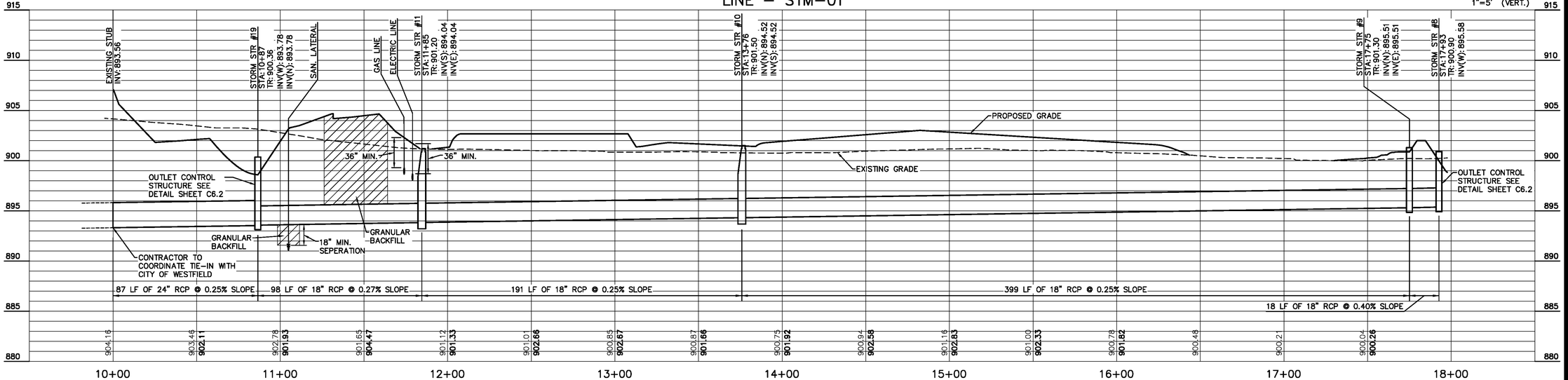

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KEVIN D. KRUER
REGISTERED
No. 10606572
STATE OF INDIANA
PROFESSIONAL ENGINEER
CERTIFIED BY

STORM SEWER PLAN & PROFILE

PREPARED FOR:
MAINSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:
MAINSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
WESTFIELD, INDIANA

DATE:	02/03/12
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CHK'D BY:	KDK
JOB NO.	201100738

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1 TAC COMMENTS	03/09/12

SHEET NO.
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#11-58322240 DATED 8-15-2011

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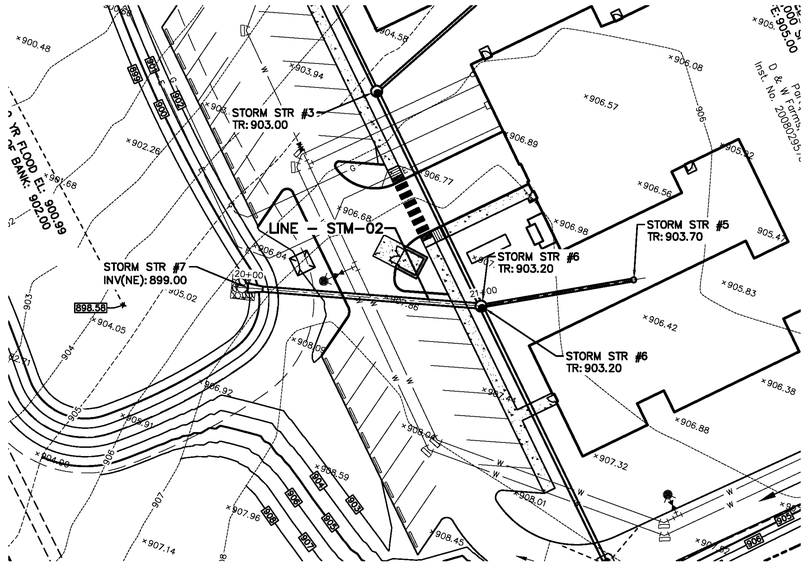

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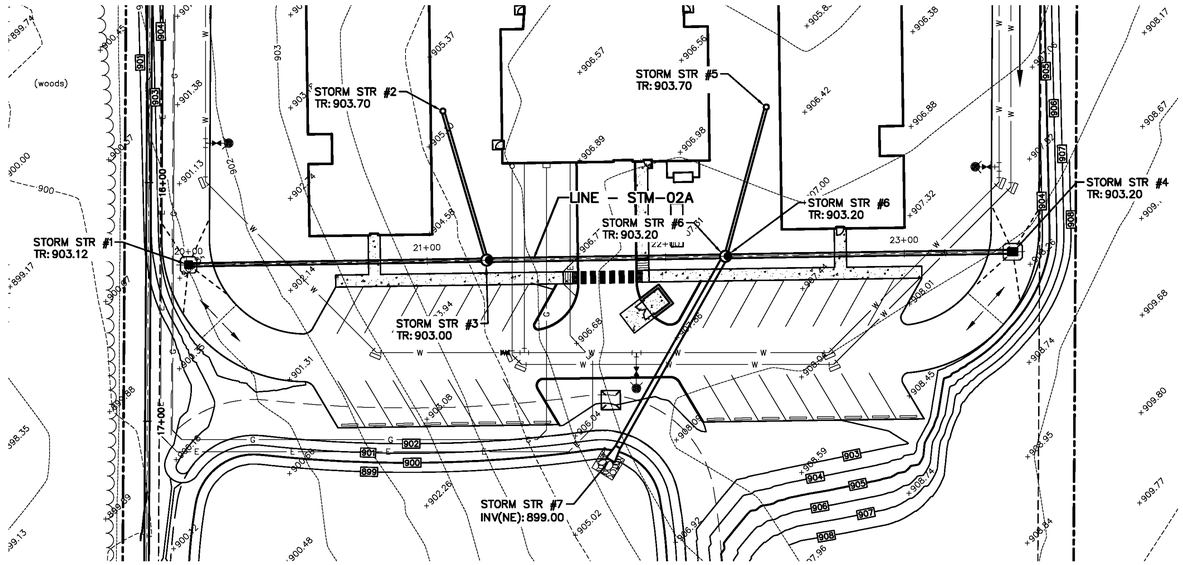

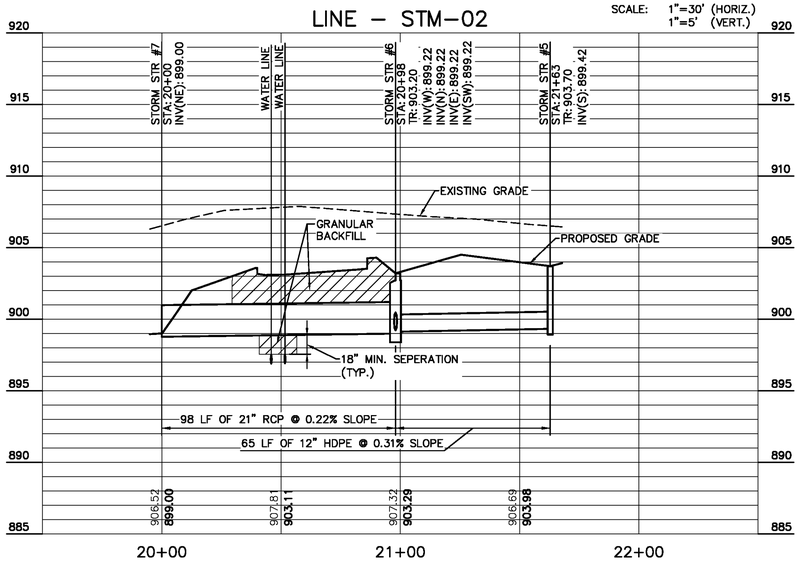

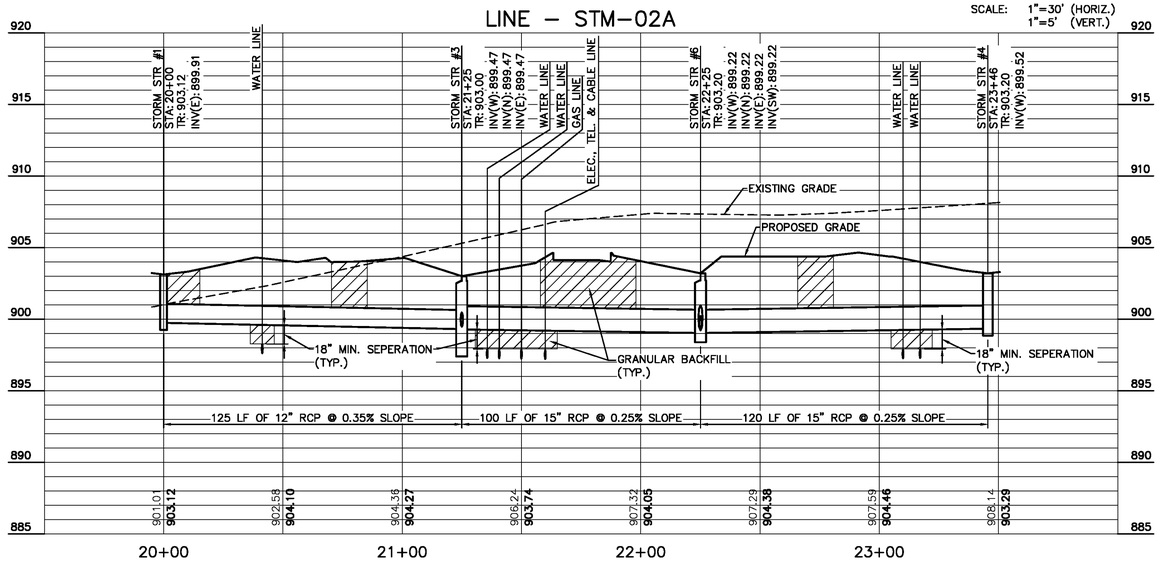

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STORM SEWER PLAN & PROFILE

PREPARED FOR:
MAINSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:
MAINSTREET HEALTH AND WELLNESS
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DATE:	02/03/12
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1 TAC COMMENTS	03/09/12

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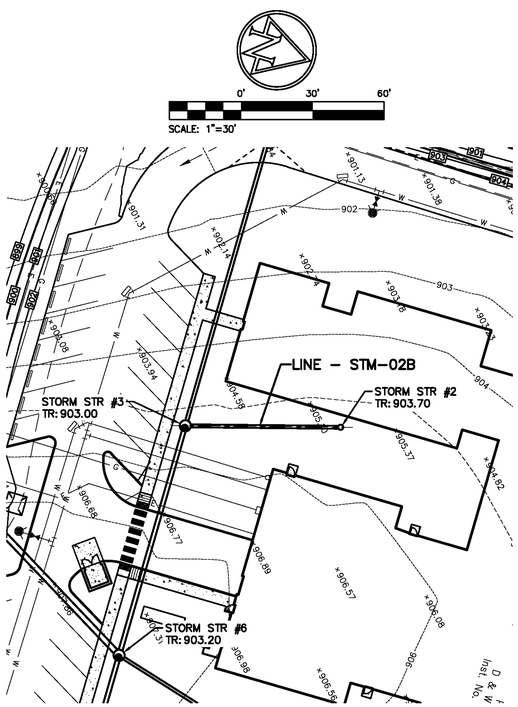

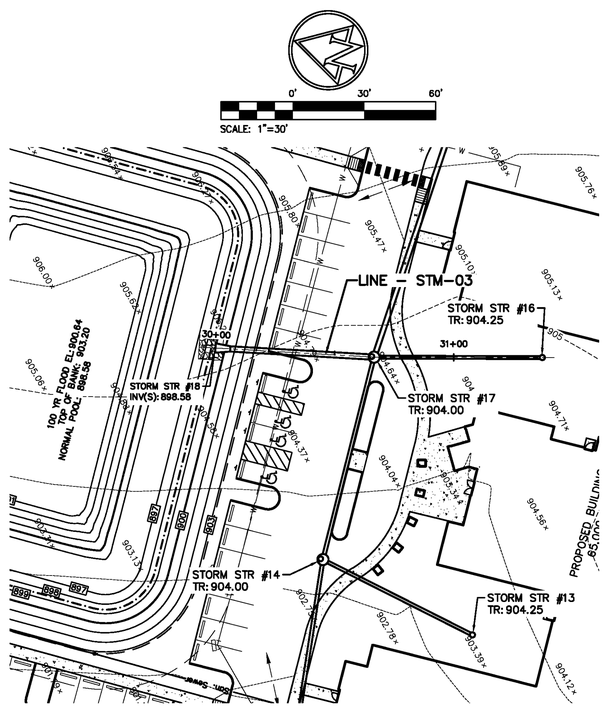

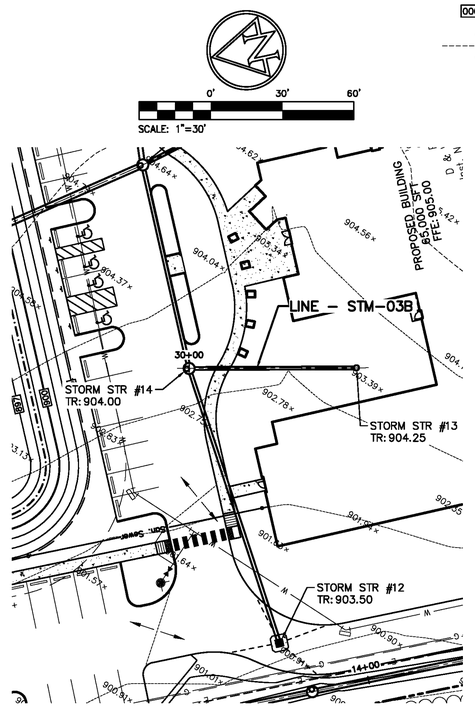

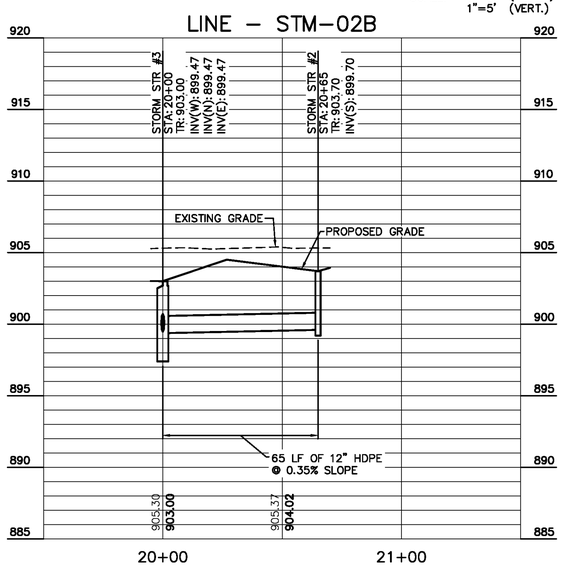

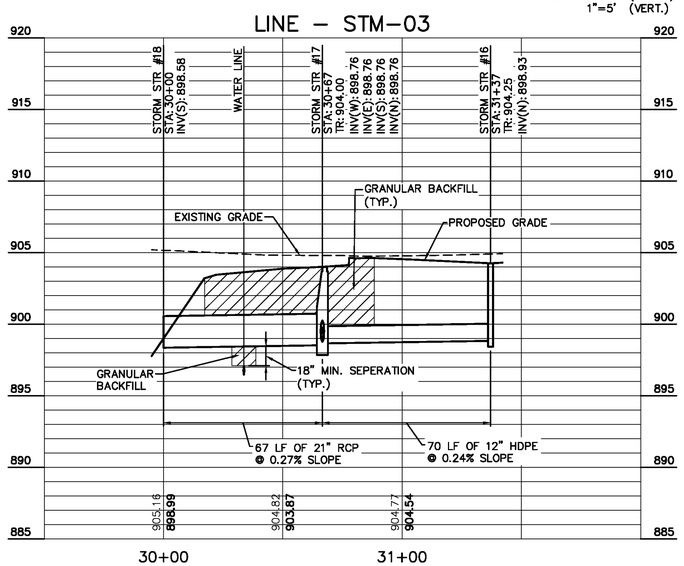

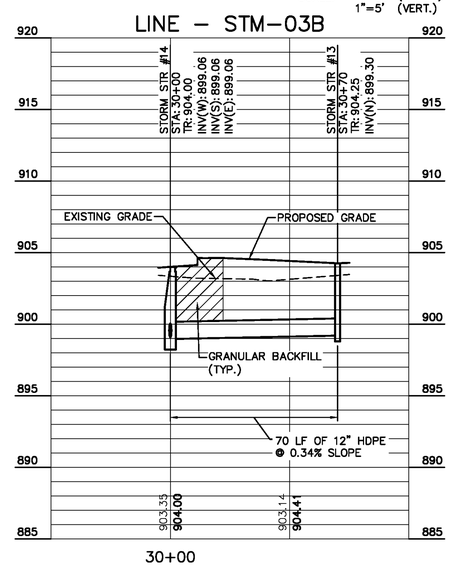

7265 SHADELAND STATION
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AMERICAN STRUCTUREPOINT INC.

KEVIN D. KRUK
REGISTERED
No. 10606572
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY

STORM SEWER PLAN & PROFILE

PREPARED FOR:
MAINSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:
MAINSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
WESTFIELD, INDIANA

DATE:	02/03/12
DRAWN BY:	PED
CHK'D BY:	KDK
JOB NO.	201100738

REVISIONS	
1 TAC COMMENTS	03/09/12

SHEET NO.
C4.5
OF

201100738.CE.06.C04.3-C04.6.STMPP.dwg

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1-800-382-5544
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– 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.

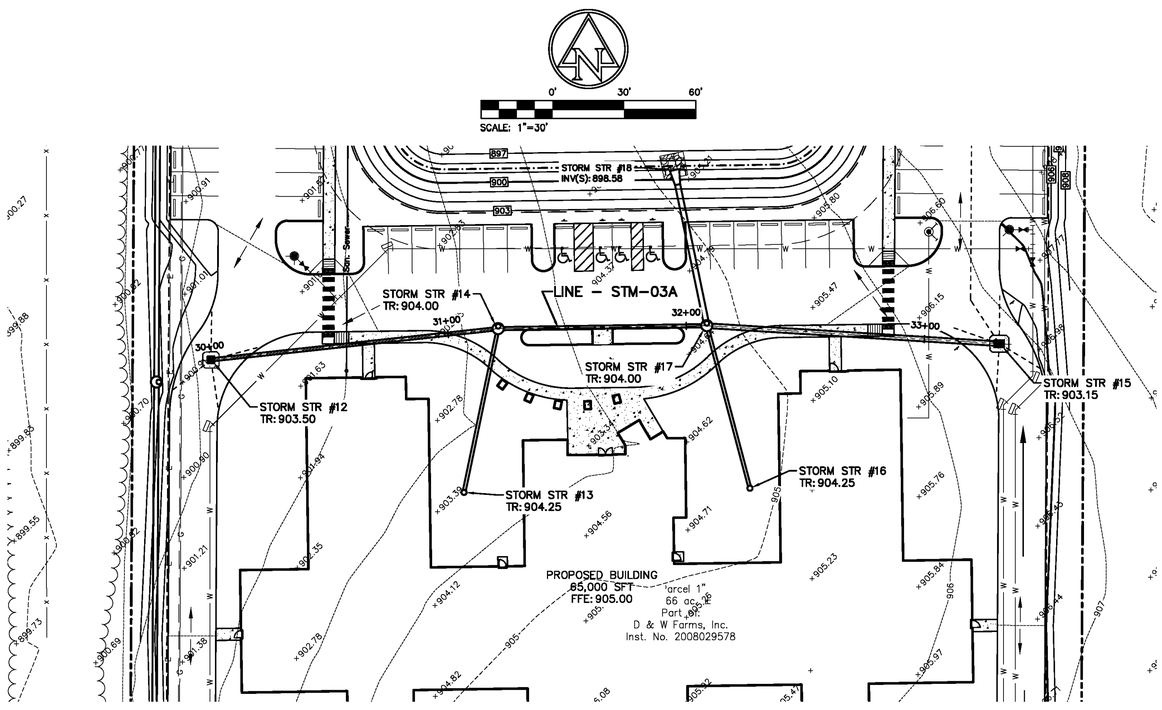
BENCH MARK INFORMATION
NAVD 88 DATUM USING OPUS SOLUTION
#11-58322240 DATED 8-15-2011

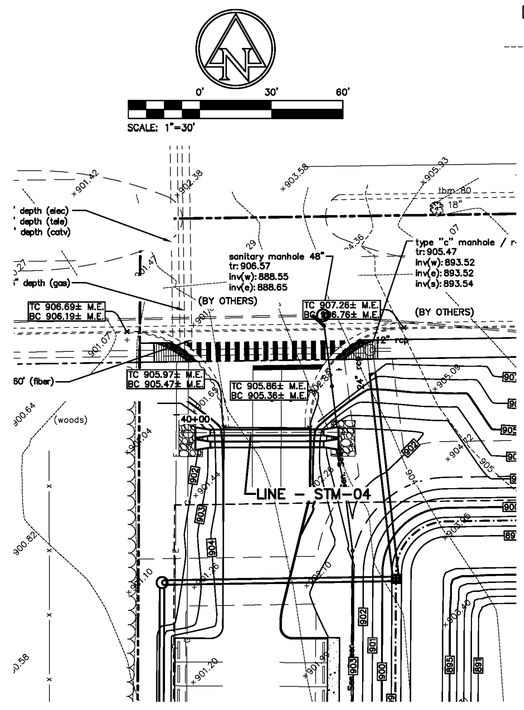
CPT 800
REBAR SET AT N-40.05728089, W-86.13705484
ELEV = 898.60

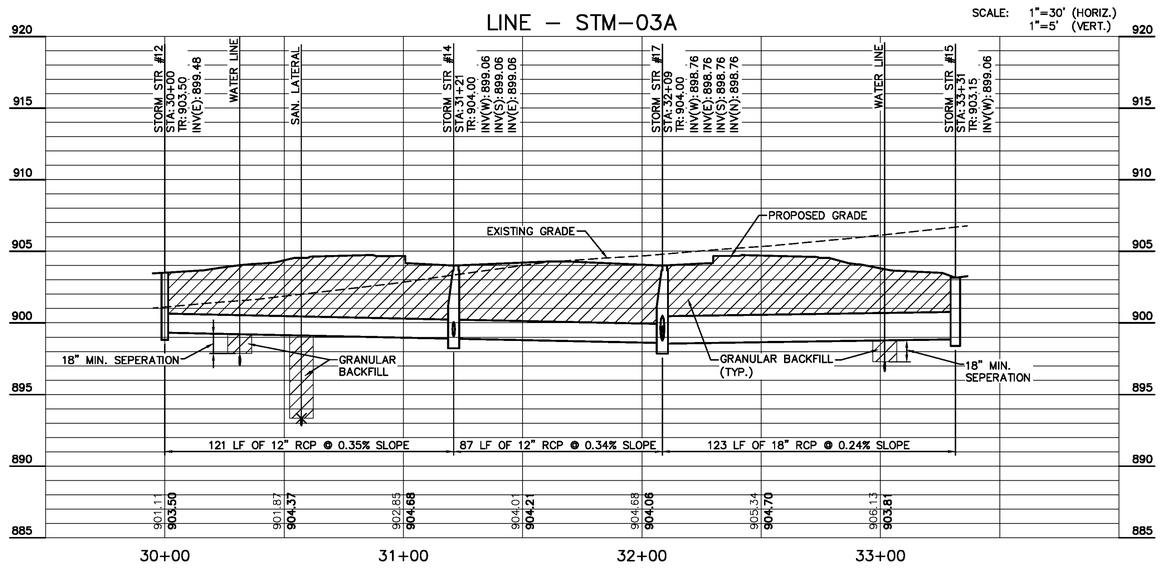
TBM 80
RAILROAD SPIKE ON THE WEST SIDE OF AN 18" OAK TREE ON THE NORTH PROPERTY LINE IN FENCE ROW 400'± OF EAST OF A DITCH.
ELEV = 908.24

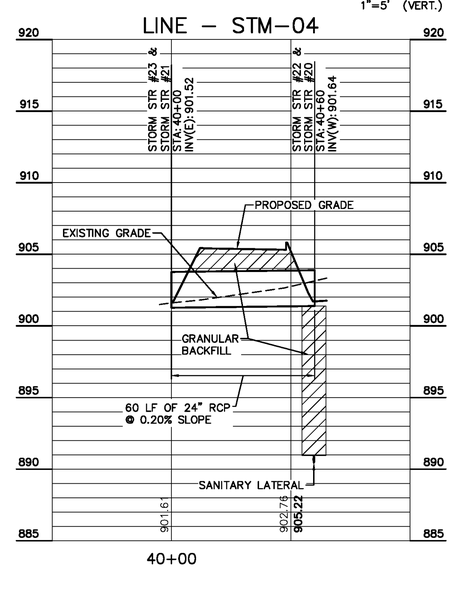
EXISTING LEGEND
- Beehive Inlet
- Tree

PROPOSED GRADING LEGEND
- M.E. MATCH EXISTING
- EP EDGE OF PAVEMENT
- BC BOTTOM OF CURB
- TC TOP OF CURB
- 000 CONTOURS
- FLOW LINE
- TC 000.50 / BC 000.00 CURB ELEVATIONS
- 000.00 SPOT ELEVATIONS
- RIDGE LINE









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KEVIN D. KRUER
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No. 10606572
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PROFESSIONAL ENGINEER
CERTIFIED BY

STORM SEWER PLAN & PROFILE

PREPARED FOR:
MAINSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:
MAINSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
WESTFIELD, INDIANA

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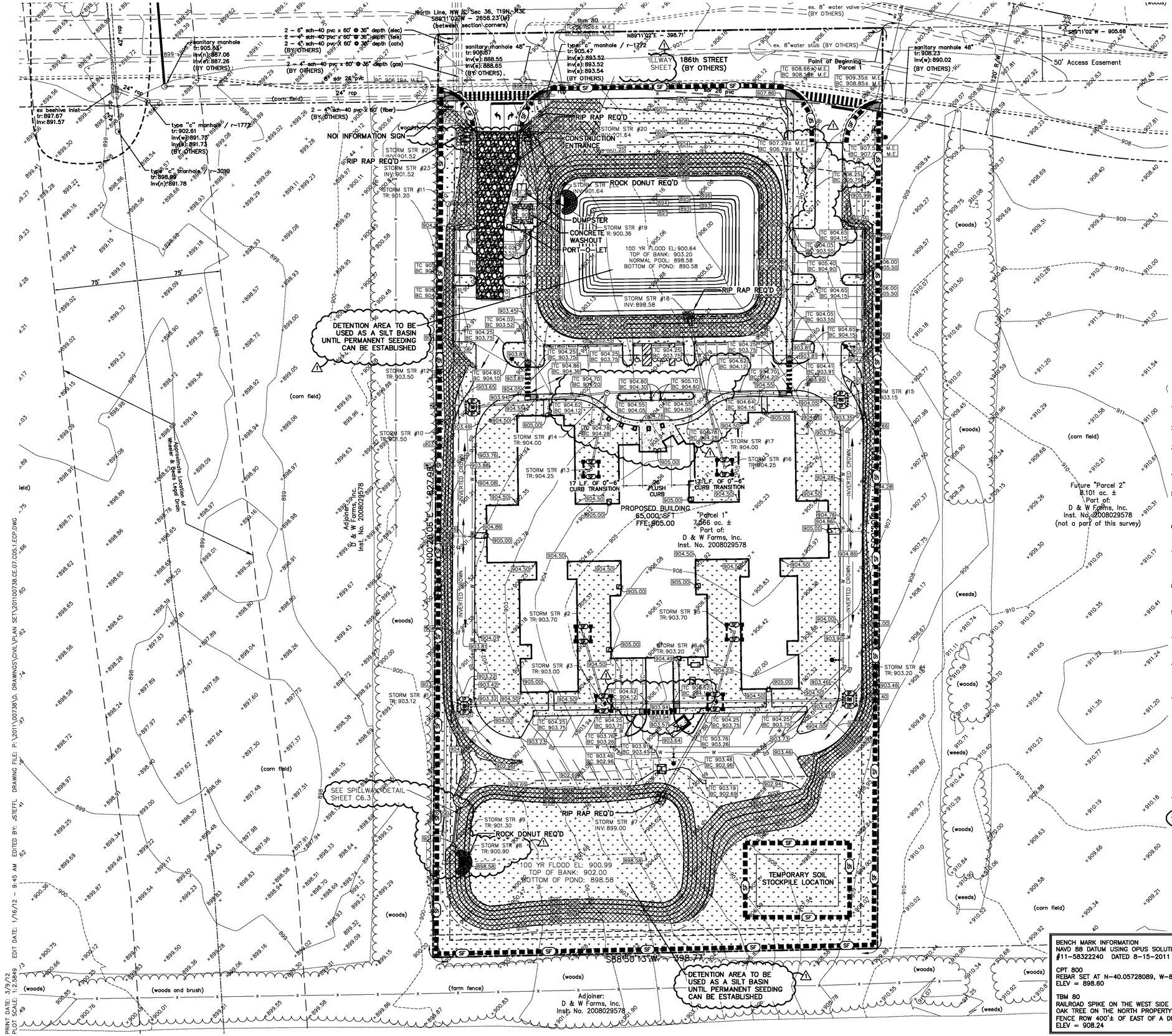

0' 40' 80'

SCALE: 1"=40'

EXISTING LEGEND

- Beehive Inlet
- Tree

PROPOSED EROSION CONTROL LEGEND

- SILT FENCE
- CATCH ALL INLET PROTECTION
- SILT FENCE INLET PROTECTION
- EROSION CONTROL BLANKET
- 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 / BC 000.00 — CURB ELEVATIONS
- 000.00 — SPOT ELEVATIONS

EROSION CONTROL NOTES

1. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
2. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
3. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
5. 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.
6. 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.
7. SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
8. SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
9. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
10. ALL EXISTING STRUCTURES, FENCING, TREES AND ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON SITE.
11. THIS LOT DOES/DOES NOT LIE WITHIN ANY FLOOD HAZARD ZONE AS SCALED FROM THE FLOOD INSURANCE RATE MAP (FIRM) FOR HAMILTON COUNTY, INDIANA, COMMUNITY HAMILTON, CITY OF WESTFIELD, COMMUNITY NUMBER 18057C, PANEL NUMBER 0120F, DATED FEBRUARY 19, 2003.
12. SCHEDULE OF EARTHWORK ACTIVITIES:
    a. 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.
13. ALL EROSION CONTROL MATERIAL SHALL BE APPROVED BY THE WPWD INSPECTORS PRIOR TO INSTALLATION.
14. REFER TO PLANTING PLAN ON SHEET C8.0 FOR PERMANENT SEEDING. ⚠1

NOTES:

1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
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KEVIN D. KRUER
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No. 10606572
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY

EROSION CONTROL PLAN

PREPARED FOR:
MAINSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:
MAINSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
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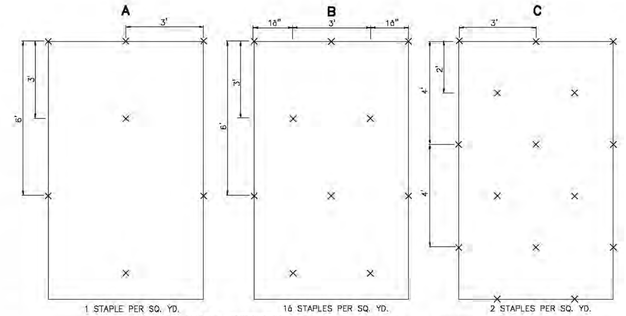
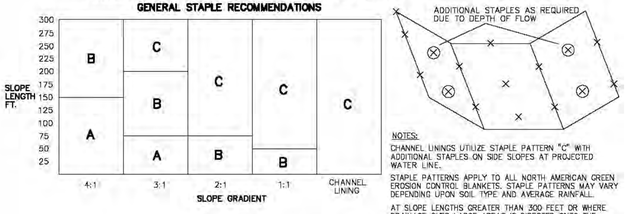
EROSION CONTROL NOTES:

1. CONSTRUCTION ACTIVITY SHALL CONSIST OF UTILITIES, DRAINAGE SWALES AND DETENTION BASIN.
2. PRELIMINARY CONSTRUCTION SCHEDULE: EARTHWORK SHALL BEGIN IN THE SUMMER OF 2012. INSTALLATION OF STORM DRAINAGE STRUCTURES, SANITARY SEWERS AND WATERMAINS SHALL BEGIN IN THE SUMMER OF 2012. COMPLETION OF THE PROJECT IS ANTICIPATED IN 2012. THIS SCHEDULE IS SUBJECT TO CHANGE.
3. LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
4. CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
5. THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
6. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
7. 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.
8. WASTES AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTES AND UNUSED BUILDING MATERIALS IS REQUIRED.
9. SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
10. 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.
11. IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
12. EXISTING VEGETATION SHALL BE PRESERVED IN AREAS NOT DISTURBED BY CONSTRUCTION ACTIVITY.
13. THERE ARE NO BORROW AREAS OTHER THAN THOSE DESIGNATED.
14. ALL APPLICABLE EROSION CONTROL MEASURES SHALL BE PLACED BEFORE ANY LAND DISTURBING ACTIVITIES.
15. SCHEDULE OF EROSION CONTROL ACTIVITIES:
    a. INSTALL INLET PROTECTION AROUND INLETS IMMEDIATELY UPON COMPLETION OF THE STRUCTURE. REMOVE INLET PROTECTION FOR PAVING OPERATION. REPLACE INLET PROTECTION AFTER PAVING IS COMPLETE. INLET PROTECTION SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON SEEDED AREAS BEHIND THE CURB.
    b. 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.
    c. 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.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR FILING A NOTICE OF INTENT WITH THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT.
17. APPLY FERTILIZER AT A RATE ADEQUATE TO PROVIDE 1 LB. OF ACTUAL NITROGEN PER 1,000 SQUARE FEET. USE COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER CONSISTING OF FAST AND SLOW RELEASE NITROGEN, 50 PERCENT DERIVED FROM NATURAL ORGANIC SOURCES OF UREA-FORM, PHOSPHOROUS, AND IN FOLLOWING COMPOSITION:
    a. 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.
    b. SLOW-RELEASE FERTILIZER FOR TREES AND SHRUBS: GRANULAR FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHOROUS AND POTASSIUM MADE UP OF A COMPOSITION BY WEIGHT OF 5 PERCENT.
18. ADD LIME TO TOPSOIL TO OBTAIN A pH RANGE OF 6.0 TO 7.0. LIME SHALL BE ASTM C 602, CLASS T, AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 80 PERCENT CALCIUM CARBONATE EQUIVALENT, WITH A MINIMUM 99 PERCENT PASSING A NO. 8 (2.36 mm) SIEVE AND A MINIMUM 75 PERCENT PASSING A NO. 50 (250 MICROMETER) SIEVE.
19. CONSTRUCTION TRAFFIC SHALL ENTER THE SITE AT DRIVES WHICH ARE CURRENTLY PAVED.
20. CONTRACTOR TO SEED ALL DISTURBED AREAS. FINISH GRADE TO BE SEED AND STRAW.
21. CONTRACTOR SHALL MONITOR TRUCK WASHING AND SEDIMENT TRACKING ONTO STREETS. STREET CLEANING WILL BE REQUIRED BY DINNER, TOWN OF FISHERS OR THE HAMILTON COUNTY SOIL AND WATER CONSERVATION DISTRICT IF ROADWAYS HAVE SOIL FROM THE SITE TRACKED ONTO THEM.



GENERAL STAPLE RECOMMENDATIONS



NOTES:

CHANNEL LININGS UTILIZE STAPLE PATTERN "C" WITH ADDITIONAL STAPLES ON SIDE SLOPES AT PROJECTED WATER LINE.

STAPLE PATTERNS APPLY TO ALL NORTH AMERICAN GREEN EROSION CONTROL BLANKETS. STAPLE PATTERNS MAY VARY DEPENDING UPON SOIL TYPE AND AVERAGE RAINFALL.

AT SLOPE LENGTHS GREATER THAN 300 FEET OR WHERE DRAINAGE OVER LARGE AREAS IS DIRECTED ONTO THE BLANKETS, STAPLE PATTERN "C" SHOULD BE UTILIZED.

EROSION CONTROL MAT INSTALLATION GUIDE DETAIL

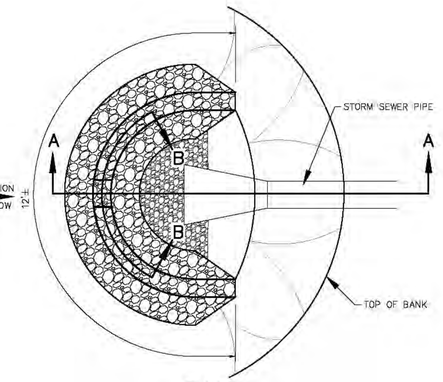
NOT TO SCALE

EROSION CONTROL BLANKET (SURFACE APPLIED) INSTALLATION REQUIREMENTS

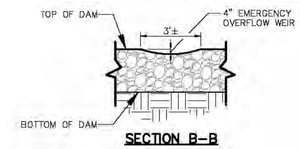
1. SELECT THE TYPE AND WEIGHT OF EROSION CONTROL BLANKET TO FIT THE SITE CONDITIONS (e.g., SLOPE, CHANNEL FLOW VELOCITY).
2. INSTALL ANY PRACTICES NEEDED TO CONTROL EROSION AND RUNOFF, SUCH AS TEMPORARY OR PERMANENT DIVERSION, SEDIMENT BASIN OR TRAP, SILT FENCE.
3. GRADE THE SITE AS SPECIFIED IN THE CONSTRUCTION PLAN.
4. ADD TOPSOIL WHERE APPROPRIATE.
5. PREPARE THE SEEDBED, FERTILIZE (AND LIME, IF NEEDED), AND SEED THE AREA IMMEDIATELY AFTER GRADING.
6. FOLLOWING MANUFACTURER'S DIRECTIONS, LAY THE BLANKETS ON THE SEEDED AREA SUCH THAT THEY ARE IN CONTINUOUS CONTACT WITH THE SOIL AND THAT THE UPSLOPE OR UPSTREAM ONES OVERLAP THE LOWER ONES BY AT LEAST 8 in.
7. TUCK THE UPPERMOST EDGE OF THE UPPER BLANKETS INTO A CHECK SLOT (SILT TRENCH), BACKFILL WITH SOIL, AND TAMP DOWN.
8. ANCHOR THE BLANKETS AS SPECIFIED BY THE MANUFACTURER. THIS TYPICALLY INVOLVES DRIVING 6-8 in. METAL STAPLES INTO THE GROUND IN A PATTERN DETERMINED BY THE SITE CONDITIONS.

EROSION CONTROL BLANKET (SURFACE APPLIED) MAINTENANCE REQUIREMENTS

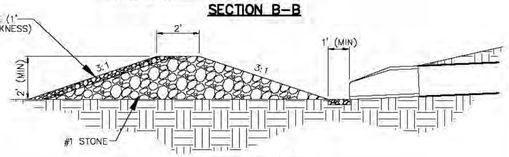
1. DURING VEGETATIVE ESTABLISHMENT INSPECT AFTER STORM EVENTS FOR ANY EROSION BELOW THE BLANKET.
2. IF ANY AREA SHOWS EROSION PULL BACK THAT PORTION OF THE BLANKET COVERING IT, ADD SOIL, RE-SEED THE AREA, AND RE-LAY AND STAPLE THE BLANKET.
3. AFTER VEGETATIVE ESTABLISHMENT CHECK THE TREATED AREA PERIODICALLY.



PLAN



SECTION B-B



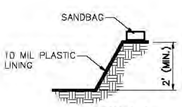
SECTION A-A

MAINTENANCE:

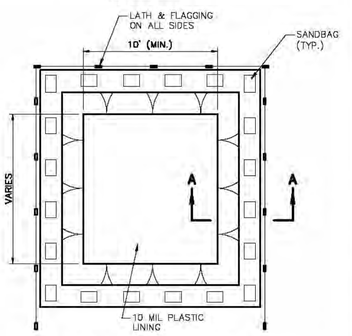
1. INSPECT THE STRUCTURE AFTER EACH STORM EVENT, REMOVING SEDIMENT AND MAKING NEEDED REPAIRS IMMEDIATELY.
2. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZES, REMOVE AND PROPERLY DISPOSE OF ANY UNSTABLE SEDIMENT AND CONSTRUCTION MATERIAL, AND RE-STABILIZE.

ROCK DONUT DETAIL

NOT TO SCALE



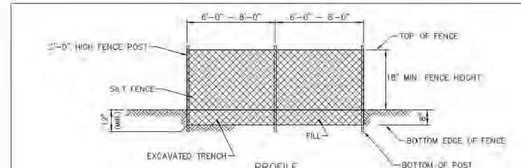
SECTION A-A



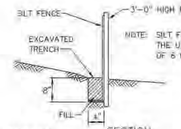
CONCRETE TRUCK WASH OUT DETAIL

NOT TO SCALE

1. LOCATE WASH OUT AREA AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR BODIES OF WATER. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID AND SOLID WASTE.
2. TEMPORARY WASH OUT FACILITIES SHOULD HAVE A TEMPORARY PIT AREA OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND SOLID WASTE CONCRETE MATERIALS GENERATED DURING WASH OUT PROCEDURES.
3. ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO WASH OUT PIT.
4. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
5. THE CONCRETE WASHOUT AREA SHALL BE INSPECTED DAILY FOR PUNCTURES OR TEARS IN THE PLASTIC LINER. THE LINER SHALL BE REPLACED UPON REMOVAL OF HARDENED CONCRETE.
6. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 12 INCHES FOR BELOW GRADE FACILITIES. MAINTAINING TEMPORARY CONCRETE WASH OUT FACILITIES SHOULD INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITY TO A FUNCTIONAL CONDITION. HARDENED CONCRETE MATERIALS SHOULD BE REMOVED AND DISPOSED OF, IN ACCORDANCE WITH LOCAL STANDARDS.
7. CONCRETE WASHOUT AREAS SHALL BE CLEARLY MARKED WITH LATH & FLAGGING AND A SIGN POSTED AND LABELED "CONCRETE WASHOUT". LATH AND FLAGGING SHOULD BE COMMERCIAL TYPE.
8. THE CONCRETE WASH OUT AREA SHALL BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
9. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL. 10. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT AN APPROVED SITE



PROFILE



SECTION

INSTALLATION PROCEDURE

1. 2" x 2" X 36" HARDWOOD OR STEEL FENCE POSTS ARE INSTALLED 6' APART (W/ EXTRA STRENGTH FABRIC WITHOUT WIRE BACKING) OR 8' APART (W/ WIRE BACKING), ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
2. A TRENCH 4" WIDE BY 8" DEEP IS DUG ALONG THE UPHILL SIDE OF THE FENCE LINE.
3. THE SILT FENCE IS UNROLLED AND LAID OUT ALONG THE FENCE LINE.
4. A BUILT-IN ATTACHMENT CORD RUNS THROUGHOUT THE FULL LENGTH OF EACH 150 LINEAR FOOT ROLL. ONE END OF THE ROLL HAS APPROXIMATELY 5' OF CORD. THE OTHER END HAS APPROXIMATELY 20' OF CORD. THE END WITH 5' OF CORD IS WRAPPED AROUND THE FIRST POST AND SECURED.
5. THE FENCE IS PULLED TO THE NEXT POST AND A 1.5" SLIT IS MADE IN THE HEM DIRECTLY ABOVE THE CORD. THE CORD IS PULLED OUT OF THE HEM AND PULLED TAUT FROM THE PRECEDING POST AND WRAPPED TWICE AROUND THE POST
6. THE SLITTING OF THE HEM ON EACH POST IS REPEATED UNTIL THE FINAL POST IS REACHED, AT WHICH TIME THE MATERIAL IS WRAPPED AROUND THE LAST POST AND SECURED WITH THE ENCLOSED CORD.
7. AT THIS TIME, THE LOWER 8" OF THE FENCE IS LAID IN THE TRENCH AND CURLED TOWARD THE EROSION SOURCE. THE TRENCH IS THEN BACKFILLED WITH SOIL

SILT FENCE DETAIL

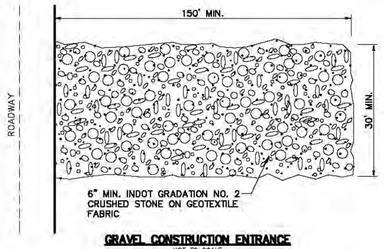
Westfield PUBLIC WORKS

KEVIN LYNN HOFF REGISTERED NO. 10403850 STATE OF INDIANA PROFESSIONAL ENGINEER

TOWN OF WESTFIELD, INDIANA

Kevin Lynn Hoff 4/10/06 DATE

FIGURE EC-4



GRAVEL CONSTRUCTION ENTRANCE

NOT TO SCALE

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE INSTALLATION REQUIREMENTS:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA, AND GRADE AND CROWN FOR POSITIVE DRAINAGE.
3. IF SLOPE TOWARDS THE ROAD EXCEEDS 2%, CONSTRUCT A 6-8 In. HIGH WATER BAR (RIDGE) WITH 3:1 SIDE SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 ft. FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD.
4. INSTALL PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
5. IF WET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.
6. PLACE STONE TO DIMENSIONS AND GRADE SHOWN IN THE EROSION/SEDIMENT CONTROL PLAN, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.

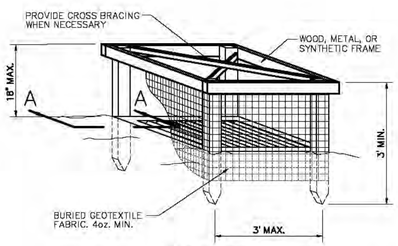
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:

1. INSPECT ENTRANCE PAD AND SEDIMENT AREA WEEKLY AND AFTER STORM EVENTS OF HEAVY USE.
2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
3. TOP DRESS WITH CLEAN STONE AS NEEDED.
4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT ROCK TRAP OR BASIN.
5. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

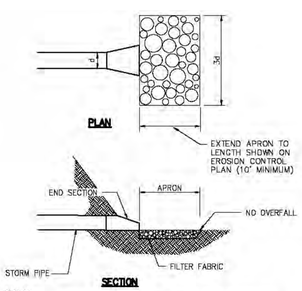
SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A									
DORMANT SEEDING	B									B		
TEMPORARY SEEDING			C		E		D					

A = KENTUCKY BLUEGRASS 100 LBS./ACRE; CREEPING RED FESCUE 100 LBS./ACRE; HYDROSEEDED
B = KENTUCKY BLUEGRASS 120 LBS./ACRE; CREEPING RED FESCUE 120 LBS./ACRE; HYDROSEEDED
C = SPRING OATS 3 BUSHELS/ACRE
D = WHEAT OR RYE 2 BUSHELS/ACRE
E = ANNUAL RYE GRASS 40 LBS./ACRE (1 LB/1000 SQ. FT.)
/\/ = IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER



FRAME DETAIL



SECTION

NOTES:

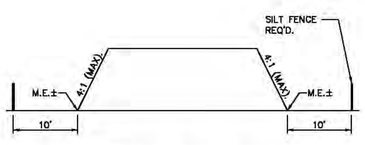
1. FOUNDATION SHALL BE GEOTEXTILE FABRIC FOR STABILIZATION AND WELL-GRADED FILTRATION OR GRAVEL FILTER LAYER AT LEAST 6 IN. THICK
2. STONE SHALL BE HARD, ANGULAR, AND HIGHLY WEATHER-RESISTANT RIPRAP STONE AT A THICKNESS OF 12 IN. MINIMUM OR TWO TIMES THE STONE DIAMETER, WHICHEVER IS GREATER.
3. MAKE SURE THE TOP OF THE RIPRAP APRON IS LEVEL WITH OR SLIGHTLY BELOW THE RECEIVING STREAM. (RIPRAP SHOULD NOT RESTRICT THE CHANNEL OR PRODUCE AN OVERFALL).
4. REFER TO SHEET C4.9 FOR DETAIL OF BANK ARMORMENT AT OUTLET TO LEGAL DRAIN.

RIPRAP MAINTENANCE REQUIREMENTS

1. INSPECT PERIODICALLY FOR DISPLACED ROCK MATERIAL, SLUMPING, AND EROSION AT EDGES, ESPECIALLY DOWNSTREAM OR DOWNSLOPE.

OUTLET PROTECTION DETAIL

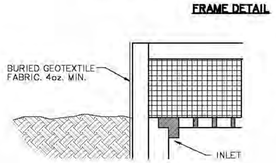
NOT TO SCALE



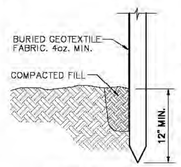
NOTE:
CONTRACTOR TO STABILIZE STOCKPILE.

STOCKPILE SECTION

NOT TO SCALE



SECTION A-A



TRENCH DETAIL

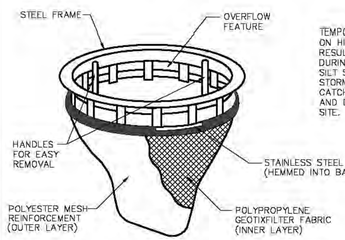
SILT FENCE INLET FILTER

NOT TO SCALE

CATCH -ALL

STORMWATER INLET PROTECTOR

THE CATCH-ALL IS AN INLET AND CATCH BASIN FILTRATION DEVICE DEVELOPED TO PREVENT SEDIMENTATION. CATCH-ALLS ARE AVAILABLE TO FIT VIRTUALLY ANY DRAINAGE STRUCTURE CASTING, AND COULD REPRESENT A BEST MANAGEMENT PRACTICE FOR YOUR EPA PHASE 2 PROGRAM.



TEMPORARY INSTALLATION: CONSTRUCTION PROJECTS ON HIGHWAYS AND NEW HOUSING DEVELOPMENTS CAN RESULT IN SUBSTANTIAL AMOUNTS OF SEDIMENT DURING A RAINSTORM. TRADITIONAL PRACTICE, USING SILT SCREENS, HAY BALES, AND FILTER FABRIC UNDER STORM GRATES PROVIDE ONLY LIMITED PROTECTION. CATCH-ALL WILL HOLD 2 CUBIC FEET OF GRAVEL, SILT, AND DEBRIS, AND CAN BE MOVED FROM SITE-TO SITE.

CATCH-ALL HAS BEEN APPROVED FOR USE ON MANY MOT ROAD CONSTRUCTION PROJECTS.

PERMANENT INSTALLATION:

COMMERCIAL AND INDUSTRIAL SITES WITH IMPERVIOUS SURFACES, SUCH AS ROADS AND PARKING LOTS, PRODUCE STORMWATER RUN-OFF THAT MAY INCLUDE PAPER REFUSE, CIGARETTES, SEDIMENT, AND EVEN SOME FLOATING OILS. THESE CONTAMINANTS CAN QUICKLY ADD UP TO A SIGNIFICANT AMOUNT IN CATCH BASINS OR MUNICIPAL SYSTEMS. WITHOUT PROPER TREATMENT, STORMWATER LADEN WITH SUCH MATERIALS CAN POLLUTE STREAMS, LAKES, AND NEAR-SHORE WATERS. THE UNIQUE DESIGN OF THE REUSABLE STEEL FRAME OF CATCH-ALL PROVIDES AN OVERFLOW CAPACITY GREATER THAN THE OPEN AREA OF THE GRATE IT FITS UNDER. THIS MEANS LITTLE CHANCE FOR WATER TO BACK UP OR POOL, EVEN BETWEEN SCHEDULED CLEANINGS. THE DURABLE, REINFORCED SEDIMENT BAG CAN BE CLEANED NUMEROUS TIMES AND IS EASILY REPLACED IN THE FIELD. THE ENTIRE UNIT IS INSTALLED BELOW GRADE AND NO REBAR, CLIPS, OR STRAPS ARE EXPOSED ON THE SURFACE. WITH A TOP FLANGE LESS THAN 1/8" THICK, THE ADDITIONAL HEIGHT EXPOSURE OF THE GRATE IS MINIMAL. CATCH-ALL CAN BE AN IMPORTANT SUPPLEMENT FOR CATCH BASINS AND UNDERGROUND STORMWATER STORAGE SYSTEMS THAT ARE USUALLY DIFFICULT TO ACCESS FOR CLEANING. CATCH-ALLS ARE AVAILABLE TO FIT VIRTUALLY ANY DRAINAGE STRUCTURE CASTING.

D2 LAND & WATER RESOURCE INC.
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INDIANAPOLIS, IN 46220
PHONE (317) 917-2180
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AMERICAN STRUCTUREPOINT INC.

KEVIN D. KROEKER REGISTERED No. 10606572 STATE OF INDIANA PROFESSIONAL ENGINEER

CERTIFIED BY

EROSION CONTROL DETAILS

PREPARED FOR:
MAINSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:
MAINSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
WESTFIELD, INDIANA

DATE:	02/03/12
DRAWN BY:	PED
CHK'D BY:	KDK
JOB NO.	201100738

REVISIONS	
1 TAC COMMENTS	03/09/12

SHEET NO.
C5.2
OF

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PRINT DATE: 3/9/12
PLOT SCALE: 1:2.5849
EDIT DATE: 1/16/12 - 6:46 AM EDITED BY: BSCHERER DRAWING FILE: P:\2011\201738\D. DRAWINGS\CIVIL\PLAN SET\201100738.CE.08.C05.2.ECD.DWG

SITE NAME:

The area scheduled for construction is known as "Mainstreet Health & Wellness Suites of Westfield" (hereinafter referred to as the "Project").

PROJECT LOCATION:

The property is located at southwest corner of E 11th St and future 186th St in Westfield, Indiana, at a latitude of 40°03'24" N and a longitude of 86°08'27" W.

OWNER'S INFORMATION:

Name: Mainstreet Property Group, LLC
Address: 109 West Jackson Street
Representative: Henry Nuckols
Title: Director of Construction and Asset Management
Telephone: (317) 420–0205
Facsimile: (317) 420–0206

OPERATOR'S INFORMATION:

Name: Mainstreet Property Group, LLC
Address: 109 West Jackson Street
Representative: Henry Nuckols
Title: Director of Construction and Asset Management
Telephone: (317) 420–0205
Facsimile: (317) 420–0206

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. Unpermitted discharges may be subject to enforcement actions by the EPA. For the purposes of this permit, an operator is defined as any party meeting either of the following requirements:

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 7.6 acres in Westfield, Indiana. The development includes the construction of a skilled care and assisted living facility 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 two proposed detention pond along the southern and northern property lines.

A4 VICINITY MAP:

Refer to Title Sheet

A5 LEGAL DESCRIPTION OF PROJECT SITE:

Record Description:

PROPERTY DESCRIPTION

A part of the Northwest Quarter of Section 36, Township 19 North, Range 3 East of the Second Principal Meridian, in Washington Township, Hamilton County, Indiana, described as follows:

Commencing at the Northeast corner of the Northwest Quarter of said section; thence South 89 degrees 11 minutes 02 seconds West 905.68 feet along the north line of said quarter section to the point of beginning; thence South 0 degrees 20 minutes 06 seconds West 825.56 feet; thence South 88 degrees 50 minutes 13 seconds West 398.77 feet; thence North 0 degrees 20 minutes 06 seconds East 827.98 feet to the aforementioned north line; thence North 89 degrees 11 minutes 02 seconds East 398.71 feet along said north line to the point of beginning and containing 7.566 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 two proposed detention ponds located along the southern and northern sides of the site. The ultimate receiving waters for the detention pond is Cool Creek–Grassy Branch/Little Cool Creek.

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

Cool Creek Drain is located west of the project site.

A11 IDENTIFICATION OF ALL RECEIVING WATERS:

The ultimate receiving water is Cool Creek–Grassy Branch/Little Cool Creek.

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:

The site does not lie within any floodplain, floodway, or floodway fringe. The information was obtained from Flood Insurance Rate Map Panel 18057C0120F dated February 19, 2003 for Hamilton County, Indiana.

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

Pre–construction 10–year discharge: 13.89 cfs
Post–construction 10–year discharge: 5.97 cfs

A15 ADJACENT LAND USE:

North: Park
East: Agricultural
South: Agricultural
West: Agricultural

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, crop 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 silty clay loam, Crosby silt loam, and Miami silt loam soils.

The suitability of the soils for dwellings with basements ranges 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 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 staged 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. Install staging area for building materials. Start building construction.
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.

Straw 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 silt fence inlet protection around inlets in grass areas during construction. Refer to the Erosion Control Plan for locations and refer to Erosion Control Details for details.

Straw 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 pond 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 fertilizer if planting will not follow placing of planting soil within a few days.
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, phosphorous and potassium made up of a composition by weight 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 including tree and shrub installation.
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 solid waste materials, including disposable 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 as soon as possible to 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 risking bodily 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.
  - Name, address and phone number of person making the spill report
  - The location of the spill
  - The time of the spill
  - Identification of the spilled substance
  - Approximate quantity of the substance that has been spilled or may be further spilled
  - The duration and source of the spill
  - Name and location of the damaged waters
  - Name of spill response organization
  - What measures were taken in the spill response
  - 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 final 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 Inspections:

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 density 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 a sump is used, sediment should be removed when 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 area should be replaced on a regular basis to maintain uniform protection.
5. Sediment Trap: 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 Entrance: 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 (7) calendar days of the inspection. A modification to 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 for a skilled care and assisted living facility. 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: Nursing home.
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), uneaten 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 ponds will remain in place as permanent features 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 such as perlite vermiculite, sand or polypropylene and disposed of in accordance with local regulations.

C3 DESCRIPTION OF PROPOSED POST–CONSTRUCTION STORMWATER QUALITY MEASURES:

Grading and Drainage:

Top soil will be placed in lawn areas and seeded with grass and graded; not to exceed 3:1 slopes. proposed landscape trees and shrubs will also be added. These bio areas will act as a natural filter strip to help improve storm water quality. The vegetated areas will slow the velocities of storm water runoff, reduce sediment runoff, and reduce problems associated with mud or dust from bare soils.

Detention Ponds:

All of the site drainage will be directed through the detention system prior to discharge. Although the detention ponds was not designed as a stormwater quality pond, it will provide a sediment removal function that is very close to that provided by a stormwater–quality swale. The detention pond encourages sediment removal by providing more time for settling and infiltration to occur.

Good Housekeeping measures:

Good Housekeeping measures such as regular street sweeping, installation of trash receptacles, and reduction in fertilizer overspray can be incorporated by the owner and/or occupant.

C4 LOCATION, DIMENSIONS, SPECIFICATIONS, AND CONSTRUCTION DETAILS OF EACH STORMWATER QUALITY MEASURE:

The following items are stormwater quality measures that will be installed during construction. These items will remain in place after construction is completed and are considered to serve an incidental function as post–construction stormwater quality BMPs.

Grass Strips:

Grass strips and vegetation will act as a natural filter strip to aide in storm water quality.

Detention Pond:

There is are two detention ponds located on the site. A dry detention basin is located along the southern property line. The wet detention pond is located along the northern property line.

C5 DESCRIPTION OF MAINTENANCE GUIDELINES FOR POST–CONSTRUCTION STORMWATER QUALITY MEASURES:

Maintenance requirements for the detention pond, swales and inlet sumps, which will remain in place after construction is completed, are described below.

Post construction maintenance requirements for the detention ponds and vegetated areas are to include periodic inspection as needed or at least every six months. Sediment shall be disposed of off site in accordance with all applicable laws. Areas that show signs of erosion shall be stabilized with erosion control blanket and/or seed as necessary.

Detention Ponds:

The detention pond shall be inspected and cleaned at the end of construction. Inspect every six months after construction has completed and clean as needed. Clean the ponds annually regardless of whether they have reached sediment storage capacity.

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STATE OF INDIANA
PROFESSIONAL ENGINEER
CERTIFIED BY

STORM WATER POLLUTION PREVENTION PLAN

PREPARED FOR:
MAINSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:
MAINSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
WESTFIELD, INDIANA

DATE:	02/03/12
DRAWN BY:	PED
CHK'D BY:	KDK
JOB NO.	201100738

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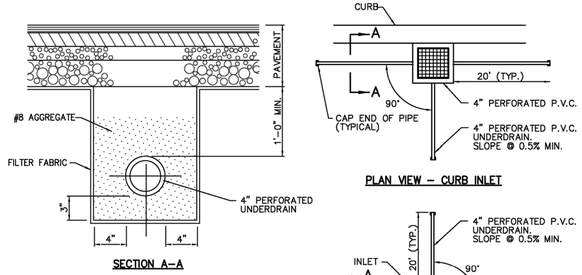
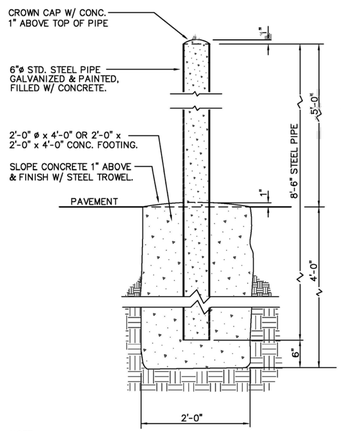


PLAN VIEW – CURB INLET

SECTION A–A

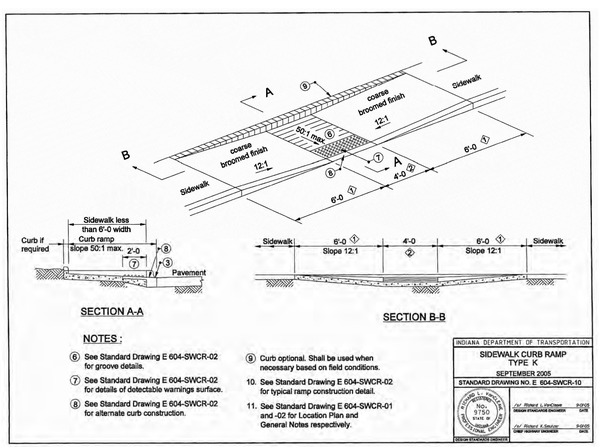
PLAN VIEW – INLET IN PARKING LOT

PAVEMENT UNDERDRAIN DETAIL
NOT TO SCALE



NOTE:
CONTRACTOR SHALL PROVIDE PIPE BOLLARDS AT 6'-0" O.C. (maximum spacing) AT ALL GAS METERS, ELECTRICAL TRANSFORMERS, ELECTRICAL SWITCH GEAR, MECHANICAL UNITS AND OTHER SUCH DEVICES WHICH ARE EXPOSED TO TRUCK OR AUTOMOBILE TRAFFIC. CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO (2) BOLLARDS AT EACH DRIVE

6" STD. STEEL PIPE BOLLARD
NOT TO SCALE



SECTION A-A

SECTION B-B

NOTES :

⑥ See Standard Drawing E 604-SWCR-02 for groove details.

⑦ See Standard Drawing E 604-SWCR-02 for details of detectable warnings surface.

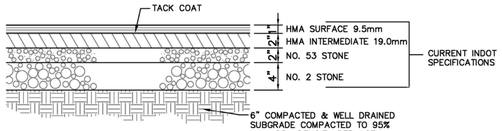
⑧ See Standard Drawing E 604-SWCR-02 for alternate curb construction.

⑨ Curb optional. Shall be used when necessary based on field conditions.

10. See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.

11. See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.

INDIANA DEPARTMENT OF TRANSPORTATION
SIDEWALK CURB RAMP TYPE K
SEPTEMBER 2005
STANDARD DRAWING NO. E 604-SWCR-10



LIGHT DUTY ASPHALT PAVEMENT SECTION
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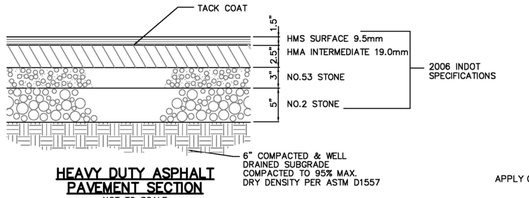

HEAVY DUTY ASPHALT PAVEMENT SECTION
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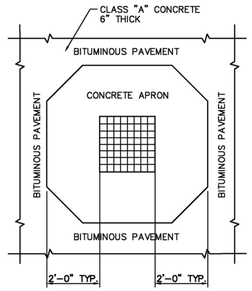
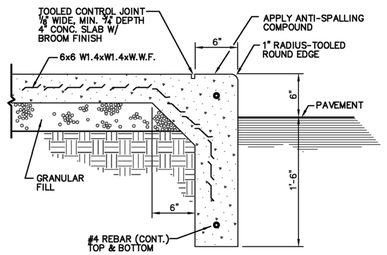
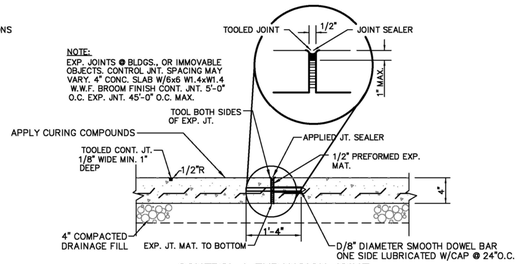


NOTE:
2' MAX. FROM OUTSIDE EDGE OF CASTING

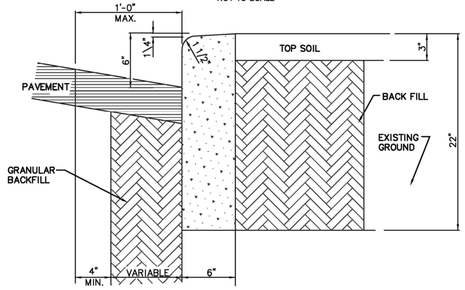
INLET APRON DETAIL
NOT TO SCALE



COMBINED CURB & WALK DETAIL
NOT TO SCALE

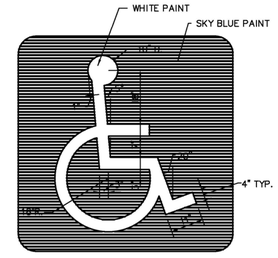


CONTROL & EXPANSION JOINT AND 4" SIDEWALK DETAIL
NOT TO SCALE



6" CONCRETE CURB
NOT TO SCALE

ADA ACCESSIBLE PARKING SIGN DETAIL
NOT TO SCALE



HANDICAP PARKING SYMBOL DETAIL
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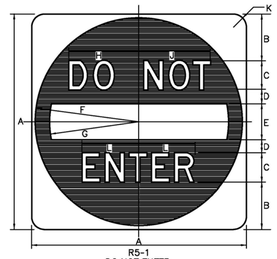


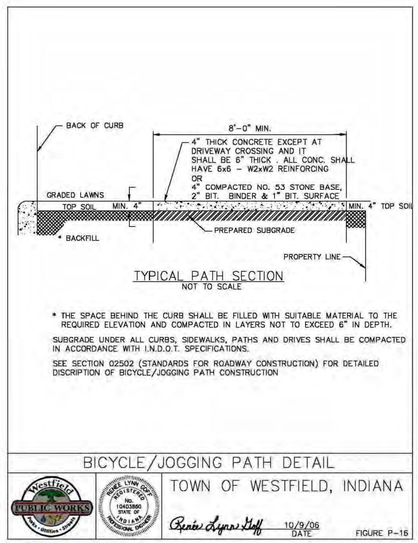
R5-1
DO NOT ENTER

A	B	C	D	E	F	G	H	J	K	L
30	6.5	4D	2	5	14.5	12.5	9.75	10	1.875	7.875
36	7.5	5D	2.5	6	17.5	15	12	12.375	2.25	9.813
48	11	6D	3	8	23.5	20	14.5	15	3	11.75

COLORS:

SYMBOL -RED (REFLECTIVE)
LEGEND & BACKGROUND -WHITE (REFLECTIVE)

DO NOT ENTER SIGN DETAIL
NOT TO SCALE



TYPICAL PATH SECTION
NOT TO SCALE

* THE SPACE BEHIND THE CURB SHALL BE FILLED WITH SUITABLE MATERIAL TO THE REQUIRED ELEVATION AND COMPACTED IN LAYERS NOT TO EXCEED 6" IN DEPTH.

SUBGRADE UNDER ALL CURBS, SIDEWALKS, PATHS AND DRIVES SHALL BE COMPACTED IN ACCORDANCE WITH I.N.D.O.T. SPECIFICATIONS.

SEE SECTION 02502 (STANDARDS FOR ROADWAY CONSTRUCTION) FOR DETAILED DISCRIPTION OF BICYCLE/JOGGING PATH CONSTRUCTION

BICYCLE/JOGGING PATH DETAIL
TOWN OF WESTFIELD, INDIANA

Renée Lynn Hoff 10/9/06
DATE

FIGURE P-16

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SITE DETAILS

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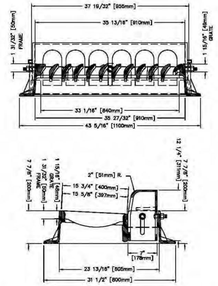


NEENAH	R-3287-10V
EAST JORDAN	7505 M1 & T2

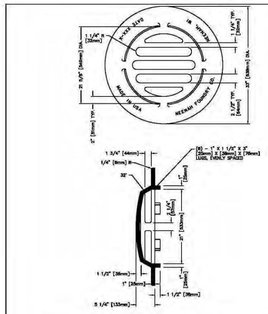
* OR APROVED BY WESTFIELD PUBLIC WORKS DEPARTMENT
** STORM SEWER CASTINGS MANHOLE COVERS, BEEHIVE INLETS, CURB INLETS OR OTHER APPROVED CASTING SHALL HAVE THE FOLLOWING PHRASES CAST IN RECESSED LETTERS TWO (2) INCHES IN HEIGHT:
A. "STORM SEWER"
B. "DRAINS TO RIVER" OR "DRAINS TO WATERWAY"
C. "DUMP NO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

CHAIR BACK CURB INLET CASTING

TOWN OF WESTFIELD, INDIANA

Brenda Lynne Huff 4/10/06 DATE

FIGURE ST-8



NEENAH	R-4342
EAST JORDAN	6489

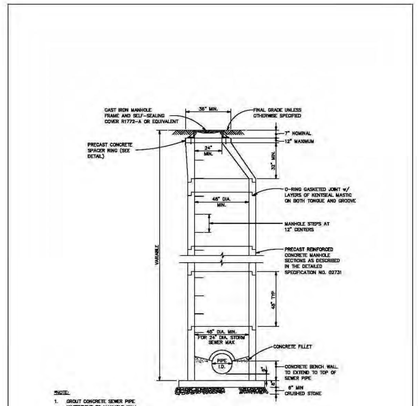
* OR APROVED BY WESTFIELD PUBLIC WORKS DEPARTMENT.
** STORM SEWER CASTINGS MANHOLE COVERS, BEEHIVE INLETS, CURB INLETS OR OTHER APPROVED CASTING SHALL HAVE THE FOLLOWING PHRASES CAST IN RECESSED LETTERS TWO (2) INCHES IN HEIGHT:
A. "STORM SEWER"
B. "DRAINS TO RIVER" OR "DRAINS TO WATERWAY"
C. "DUMP NO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

BEEHIVE CURB INLET CASTING

TOWN OF WESTFIELD, INDIANA

Brenda Lynne Huff 4/10/06 DATE

FIGURE ST-10



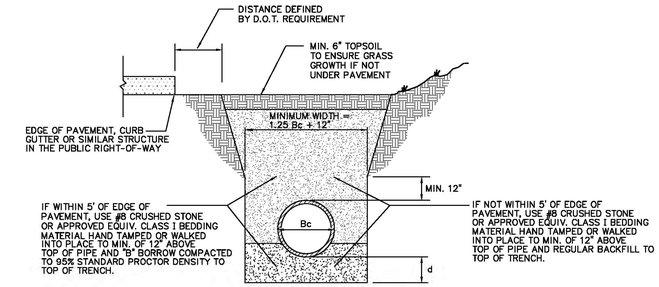
STEPS REQUIRED FOR ALL STRUCTURES DEEPER THAN 4 FEET

STANDARD STORM MANHOLE DETAIL

TOWN OF WESTFIELD, INDIANA

Brenda Lynne Huff 4/10/06 DATE

FIGURE ST-1



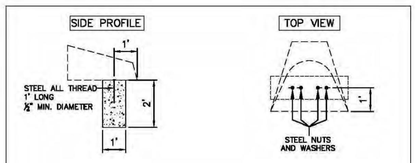
NOTE:
ALL INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.
A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

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

DEPTH OF BEDDING MATERIAL BELOW PIPE

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

PLASTIC PIPE (PVC & HDPE) BEDDING DETAIL
NOT TO SCALE



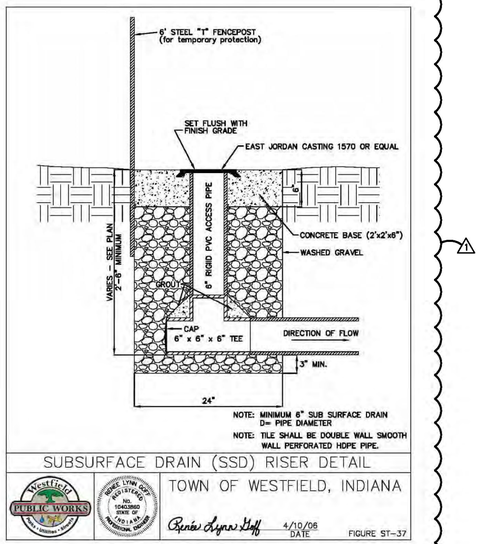
ALLTHREAD SPACING TO BE TWO PER FOOT
EX: 12" END SECTION = 2 ALLTHREAD
24" END SECTION = 4 ALLTHREAD

ANCHOR FOR CONCRETE END SECTIONS

TOWN OF WESTFIELD, INDIANA

Brenda Lynne Huff 4/10/06 DATE

FIGURE ST-30

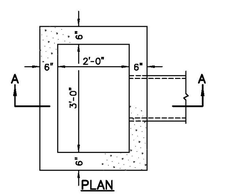


SUBSURFACE DRAIN (SSD) RISER DETAIL

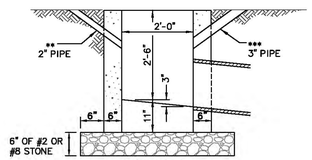
TOWN OF WESTFIELD, INDIANA

Brenda Lynne Huff 4/10/06 DATE

FIGURE ST-37



PLAN

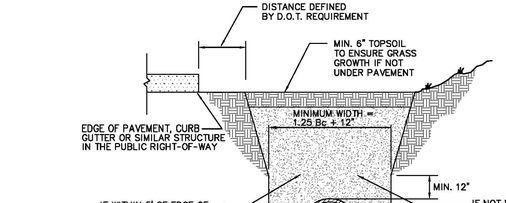


SECTION A-A

** 2" PIPE DRAIN FROM BOTTOM OF CURB TO INLET AGGREGATE TO BE PLACED AROUND INLET END OF PIPE

*** 3" MIN. DIA. PIPE TO BE KEPT OPEN FOR DRAINAGE OF SUBGRADE OR BASE UNTIL SURFACE IS PLACED.

TYPE "J" INLET
NOT TO SCALE



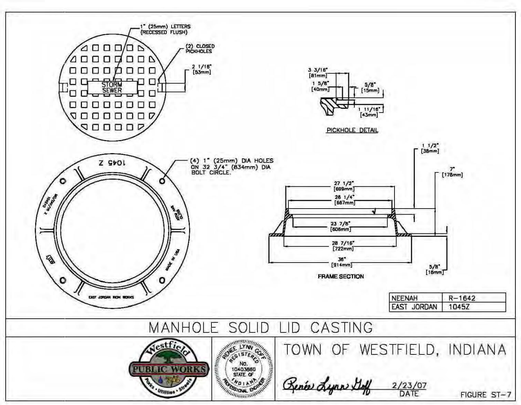
LEGEND
Bc= OUTSIDE DIAMETER
D= INSIDE DIAMETER
d= DEPTH OF BEDDING MATERIAL BELOW PIPE

NOTE:
ALL INITIAL BACKFILL SHALL BE INSTALLED IN 6" TO 12" BALANCED LIFTS.
A MINIMUM 9" OF CLEARANCE SHALL BE PROVIDED ON EACH SIDE OF THE INSTALLED PIPE.

DEPTH OF BEDDING MATERIAL BELOW PIPE

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

REINFORCED CONCRETE PIPE (RCP) BEDDING DETAIL
NOT TO SCALE

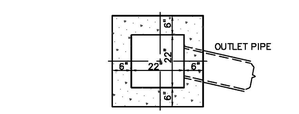


MANHOLE SOLID LID CASTING

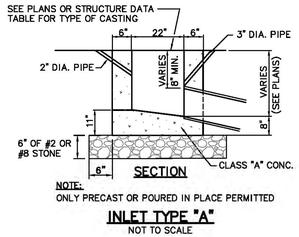
TOWN OF WESTFIELD, INDIANA

Brenda Lynne Huff 2/23/07 DATE

FIGURE ST-7



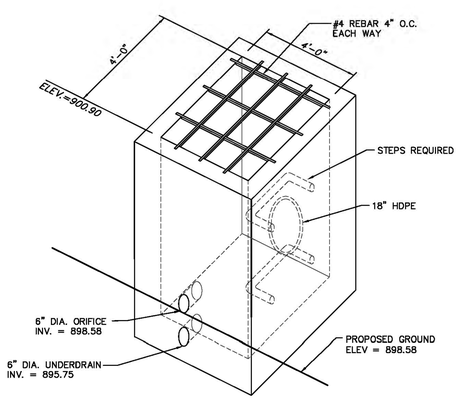
PLAN



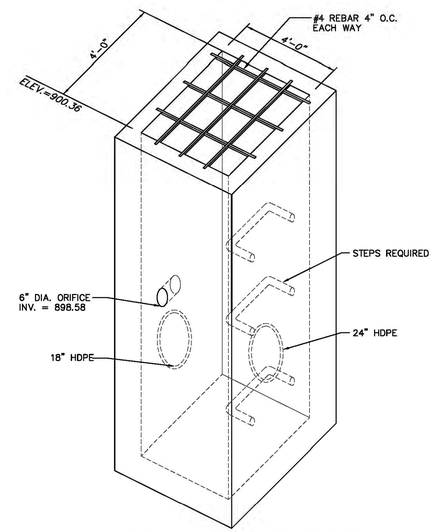
SECTION

NOTE:
ONLY PRECAST OR POURED IN PLACE PERMITTED

INLET TYPE "A"
NOT TO SCALE



POND OUTLET STRUCTURE #9 DETAIL
NOT TO SCALE



POND OUTLET STRUCTURE #19 DETAIL
NOT TO SCALE

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AMERICAN STRUCTUREPOINT INC.

KEVIN D. KRUER
REGISTERED
No. 10606572
STATE OF INDIANA
PROFESSIONAL ENGINEER

CERTIFIED BY

SITE DETAILS

PREPARED FOR:
MANSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:
MANSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
WESTFIELD, INDIANA

DATE:	02/03/12
DRAWN BY:	PED
CHK'D BY:	KDK
JOB NO.	201100738

REVISIONS	
1 TAC COMMENTS	03/09/12

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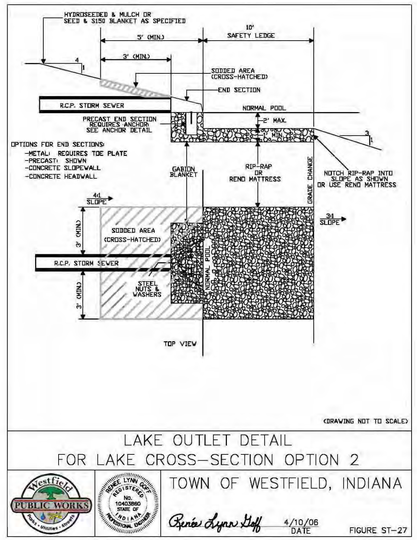
PRINT DATE: 3/9/12
PLOT SCALE: 1:2.5849 EDIT DATE: 1/16/12 - 8:39 AM EDITED BY: JSTEFFL DRAWING FILE: P:\2011\00738\D. DRAWINGS\CIVIL\PLAN SET\201100738.CE.10.C06.1-C6.4.SD.DWG



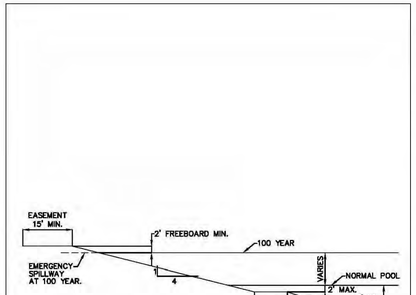
(DRAWING NOT TO SCALE)

LAKE OUTLET DETAIL
FOR LAKE CROSS-SECTION OPTION 2

TOWN OF WESTFIELD, INDIANA

4/10/06 DATE

FIGURE ST-27



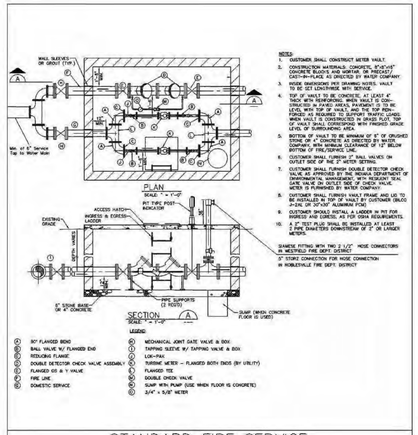
USE OUTLET OPTION 2 (SEE FIGURE ST-27)

LAKE CROSS SECTIONS: OPTION 2

TOWN OF WESTFIELD, INDIANA

4/10/06 DATE

FIGURE ST-24

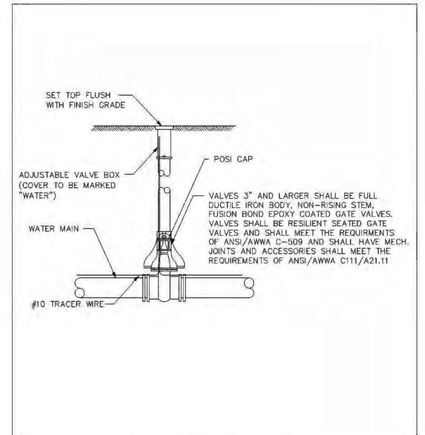


STANDARD FIRE SERVICE
& METER VAULT

TOWN OF WESTFIELD, INDIANA

10/9/06 DATE

FIGURE W-13

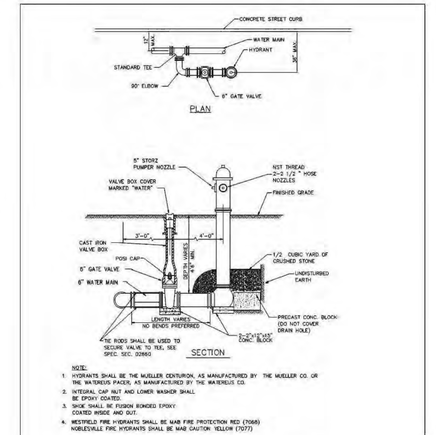


GATE VALVE AND BOX

TOWN OF WESTFIELD, INDIANA

10/9/06 DATE

FIGURE W-6

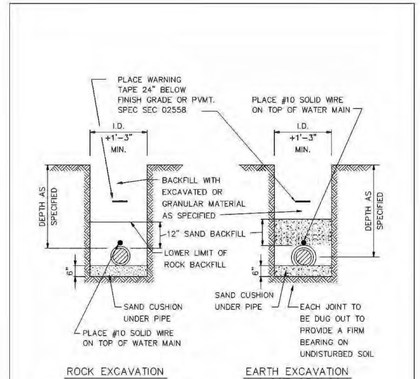


FIRE HYDRANT DETAILS

TOWN OF WESTFIELD, INDIANA

10/9/06 DATE

FIGURE W-7

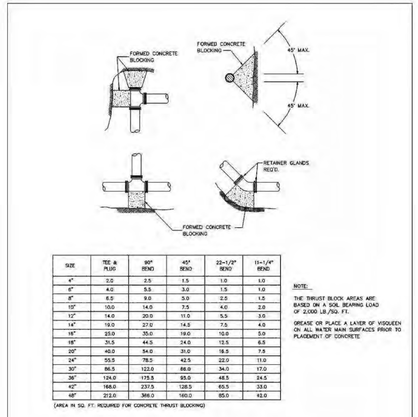


WATER MAIN INSTALLATION DETAIL

TOWN OF WESTFIELD, INDIANA

10/9/06 DATE

FIGURE W-1



SIZE	TEE & PLUG	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4"	2.0	2.5	1.5	1.0	1.0
6"	4.0	5.5	3.0	1.5	1.0
8"	6.0	9.0	5.0	2.5	1.5
10"	10.0	14.0	7.5	4.0	2.0
12"	14.0	20.0	11.0	5.5	3.0
14"	19.0	27.0	14.5	7.5	4.0
16"	25.0	35.0	19.0	10.0	5.0
18"	31.5	44.5	24.0	12.5	6.5
20"	40.0	54.0	31.0	16.5	7.5
24"	55.5	78.5	42.5	22.0	11.0
30"	86.5	122.0	66.0	34.0	17.0
36"	124.0	175.5	95.0	48.5	24.5
42"	168.0	237.5	128.5	65.5	33.0
48"	212.0	366.0	166.0	85.0	43.0

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

NOTE:
THE THRUST BLOCK AREAS ARE BASED ON A SOIL BEARING LOAD OF 2,000 LB./SQ. FT.

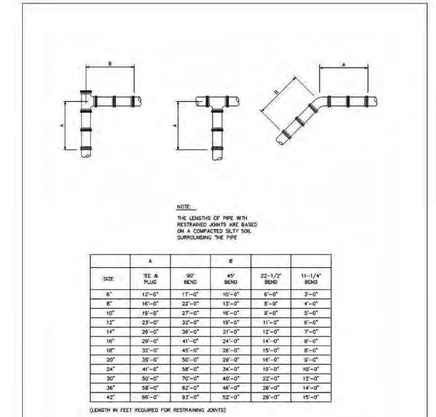
GREASE OR PLACE A LAYER OF VISQUEEN ON ALL WATER MAIN SURFACES PRIOR TO PLACEMENT OF CONCRETE

THRUST BLOCK DETAIL

TOWN OF WESTFIELD, INDIANA

10/9/06 DATE

FIGURE W-2



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

SIZE	A		B		
	TEE & PLUG	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
6"	12'-0"	17'-0"	10'-0"	6'-0"	3'-0"
8"	16'-0"	22'-0"	13'-0"	8'-0"	4'-0"
10"	19'-0"	27'-0"	16'-0"	8'-0"	5'-0"
12"	23'-0"	32'-0"	19'-0"	11'-0"	6'-0"
14"	26'-0"	36'-0"	21'-0"	12'-0"	7'-0"
16"	29'-0"	41'-0"	24'-0"	14'-0"	8'-0"
18"	32'-0"	45'-0"	26'-0"	15'-0"	8'-0"
20"	35'-0"	50'-0"	29'-0"	16'-0"	9'-0"
24"	41'-0"	58'-0"	34'-0"	19'-0"	10'-0"
30"	50'-0"	70'-0"	40'-0"	22'-0"	12'-0"
36"	58'-0"	82'-0"	46'-0"	26'-0"	14'-0"
42"	66'-0"	92'-0"	52'-0"	28'-0"	15'-0"

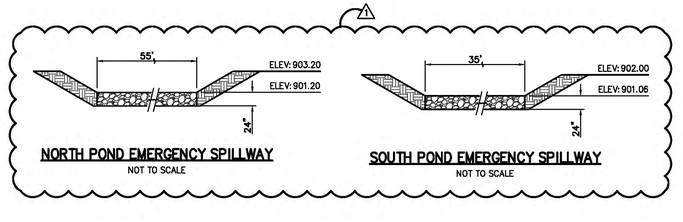
(LENGTH IN FEET REQUIRED FOR RESTRAINING JOINTS)

RESTRAINED JOINT DETAILS

TOWN OF WESTFIELD, INDIANA

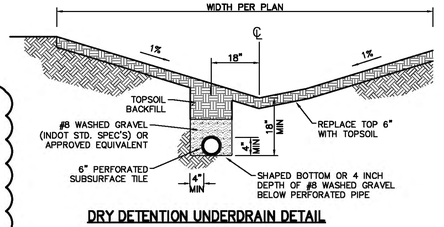
10/9/06 DATE

FIGURE W-3



NORTH POND EMERGENCY SPILLWAY
NOT TO SCALE

SOUTH POND EMERGENCY SPILLWAY
NOT TO SCALE



DRY DETENTION UNDERDRAIN DETAIL
NOT TO SCALE

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SITE DETAILS

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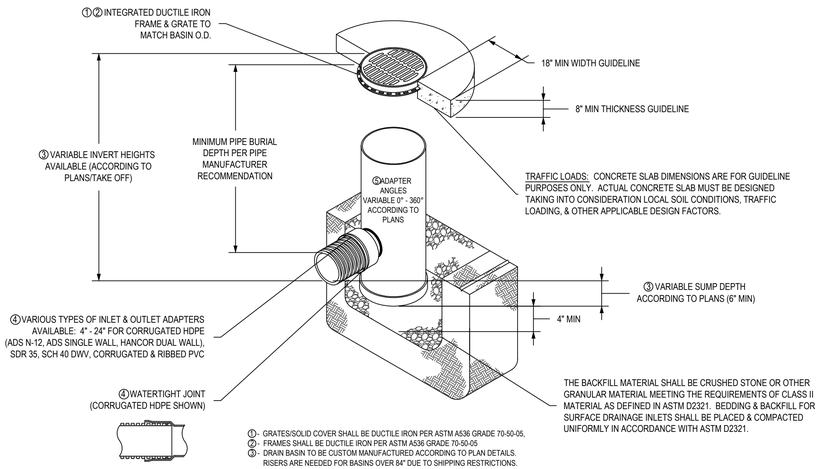
NYLOPLAST 24" DRAIN BASIN: 2824AG _ _X



① - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05,
② - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
③ - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
④ - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
⑤ - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-013.

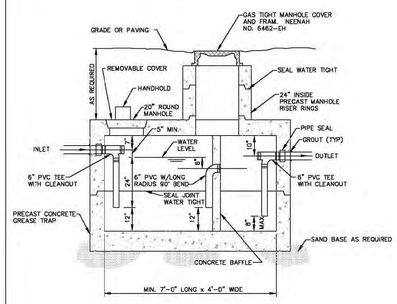
GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	2499CGP	7001-110-216
STANDARD	MEETS H-20	2499CGS	7001-110-217
SOLID COVER	MEETS H-20	2499CGC	7001-110-218
DOME	N/A	2499CGD	7001-110-219
DROP IN GRATE	LIGHT DUTY	2401DI	7001-110-075

DRAWN BY	EBC	MATERIAL	
DATE	4-3-06		
APPD BY	CJA	PROJECT NO./NAME	
DATE	4-3-06		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: 24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL
DWG NO. 7001-110-192 REV B

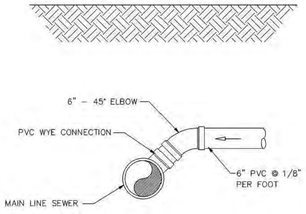
GENERAL NOTES:
1. ALL TANK JOINTS SHALL BE SEALED WATERTIGHT WITH BUTYL RUBBER EXTRUDIBLE PREFORMED GASKET MATERIAL, HAMILTON KENT-SEAL OR EQUAL.
2. ALL OUTSIDE RISER RINGS SURFACES SHALL BE WATERPROOFED W/ WITH TROWLEABLE GRADE BUTYL RUBBER BACK PLASTER.
3. PIPE SEALS SHALL BE TUF-TITE, POLYLOK, OR EQUAL.



GREASE TRAP DETAIL

TOWN OF WESTFIELD, INDIANA

10/9/06 DATE FIGURE S-14

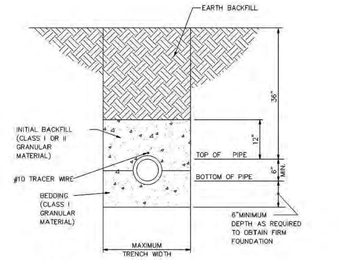


SECTIONAL VIEW

HOUSE/BUILDING SERVICE CONNECTION DETAIL 2

TOWN OF WESTFIELD, INDIANA

10/9/06 DATE FIGURE S-11

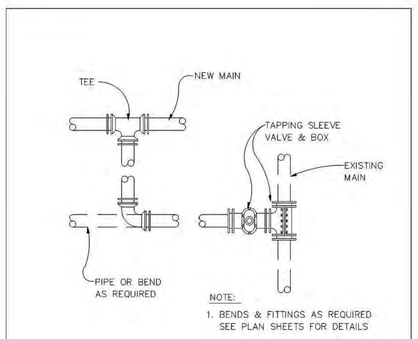


NOTES:
1. NOMINAL PIPE SIZE. (6" MIN.)
2. INSTALLATION OF FLEXIBLE PVC PIPE SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN ASTM D-2321
3. CLASS I GRANULAR MATERIAL SHALL BE 1/4" TO 1 1/2" GRADED STONE, PER ASTM D2321 (#8 CRUSH STONE)
4. CLASS II GRANULAR MATERIAL SHALL BE COARSE SANDS AND GRAVELS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

HOUSE/BUILDING SERVICE BEDDING DETAILS

TOWN OF WESTFIELD, INDIANA

10/9/06 DATE FIGURE S-12

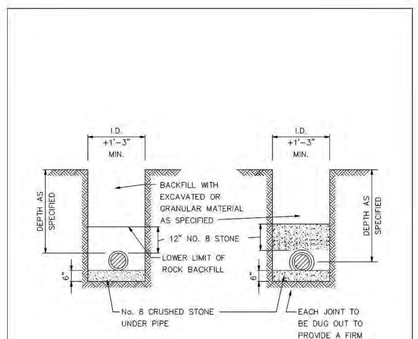


NOTE:
1. BENDS & FITTINGS AS REQUIRED SEE PLAN SHEETS FOR DETAILS
2. SEE FIGURES W-2 & W-3 FOR THRUST BLOCK AND RESTRAINED JOINT DETAILS.

CONNECTION TO EXISTING MAIN

TOWN OF WESTFIELD, INDIANA

10/9/06 DATE FIGURE W-5

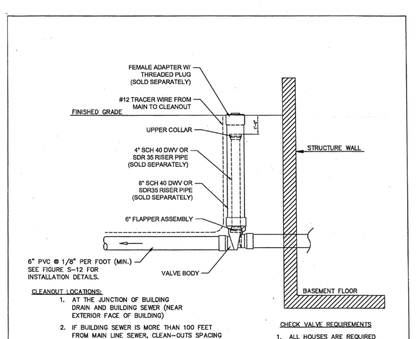


NOTE:
THIS DETAIL SHALL APPLY TO ALL SANITARY SEWER PIPE

SEWER PIPE BEDDING DETAIL

TOWN OF WESTFIELD, INDIANA

10/9/06 DATE FIGURE S-5



CLEANOUT LOCATIONS:
1. AT THE JUNCTION OF BUILDING DRAIN AND BUILDING SEWER (NEAR EXTERIOR FACE OF BUILDING)
2. IF BUILDING SEWER IS MORE THAN 100 FEET FROM MAIN LINE SEWER, CLEAN-OUTS SPACING SHALL NOT EXCEED 100 FEET.
3. A CLEANOUT IS REQUIRED AT EACH BEND THAT IS GREATER THAN 45 DEGREES.
4. THERE SHALL BE NO BASEMENT DRAINS CONNECTED TO SERVICE CONNECTION

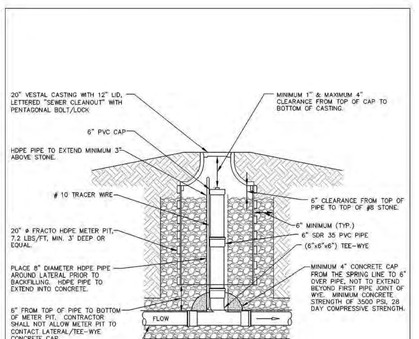
CHECK VALVE REQUIREMENTS
1. ALL HOUSES ARE REQUIRED TO HAVE A CHECK VALVE
2. NO CHECK VALVES ARE TO BE LOCATED IN THE BASEMENT
3. USE RECTORSEAL, CANPLAS OR APPROVED EQUAL

GENERAL REQUIREMENTS
THE LOWEST FLOOR ELEVATION RECEIVING GRAVITY SERVICE MUST BE A MIN.THREE (3.0) FEET ABOVE TOP NEAREST MANHOLE RIM.

HOUSE/BUILDING SERVICE CLEAN-OUT/CHECK VALVE DETAIL

CITY OF WESTFIELD, INDIANA

8/26/2011 FIGURE S-13



*WHEN REQUIRED BY WESTFIELD PUBLIC WORKS

DRAWING NOT TO SCALE

TYPE 2 CLEAN-OUT DETAIL

TOWN OF WESTFIELD, INDIANA

10/9/06 DATE FIGURE S-15

7965 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
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AMERICAN STRUCTUREPOINT INC.

KEVIN D. KRUSE REGISTERED No. 10606572 STATE OF INDIANA PROFESSIONAL ENGINEER
CERTIFIED BY

SITE DETAILS

PREPARED FOR:
MAINSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:
MAINSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
WESTFIELD, INDIANA

DATE:	02/03/12
DRAWN BY:	PED
CHK'D BY:	KDK
JOB NO.	201100738

REVISIONS	
1 TAC COMMENTS	03/09/12

SHEET NO.
C6.4
OF

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PRINT DATE: 3/9/12
PLOT SCALE: 1:2.5849 EDIT DATE: 1/16/12 - 9:39 AM EDITED BY: JSTEFFL DRAWING FILE: P:\2011\00738\D. DRAWINGS\CIVIL\PLAN SET\201100738.CE.10.C06.1-C6.4.SD.DWG

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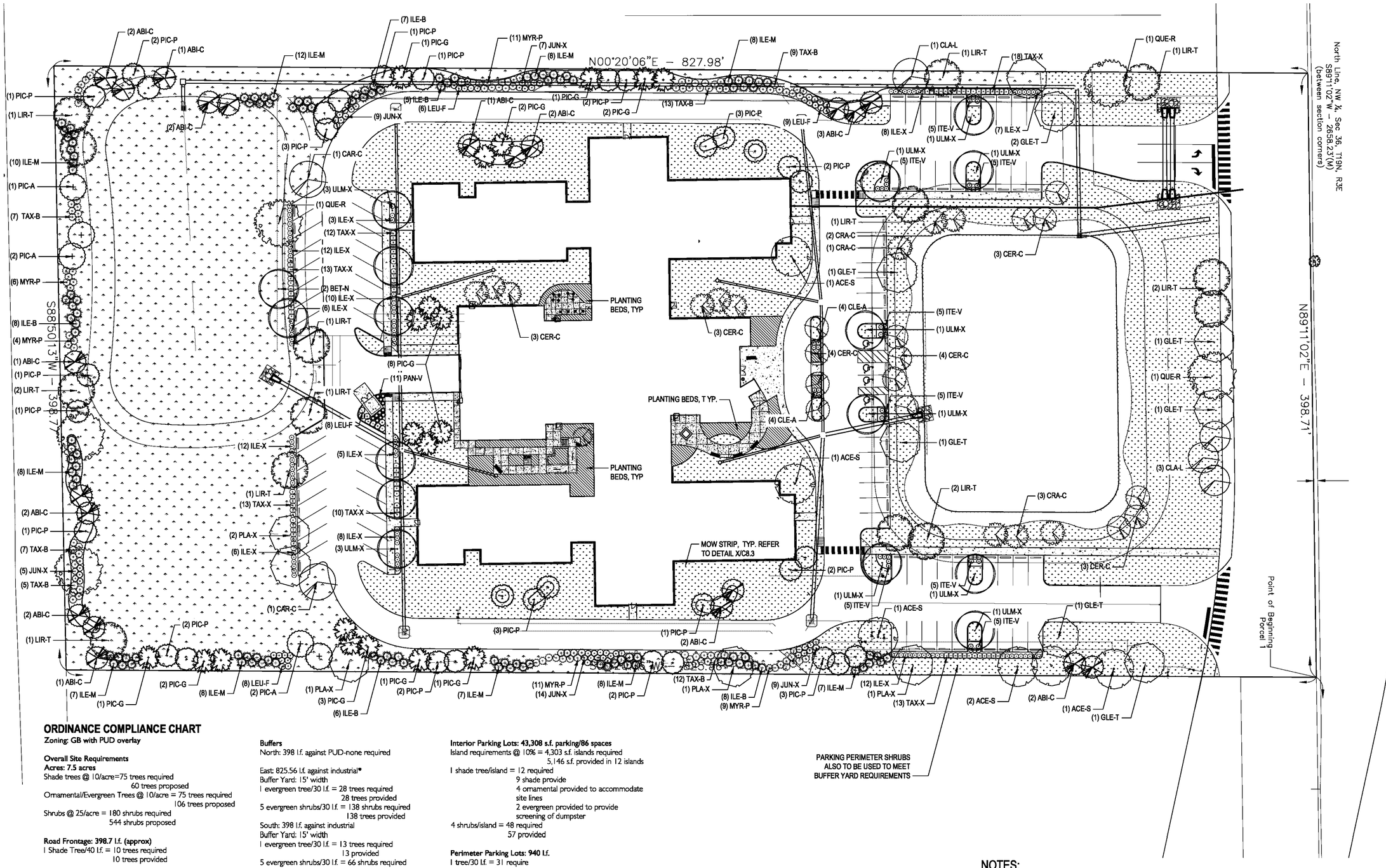

ORDINANCE COMPLIANCE CHART

Zoning: GB with PUD overlay

Overall Site Requirements
Acres: 7.5 acres
Shade trees @ 10/acre=75 trees required
60 trees proposed
Ornamental/Evergreen Trees @ 10/acre = 75 trees required
106 trees proposed
Shrubs @ 25/acre = 180 shrubs required
544 shrubs proposed

Road Frontage: 398.7 l.f. (approx)
1 Shade Tree/40 l.f. = 10 trees required
10 trees provided

Buffers
North: 398 l.f. against PUD-none required

East: 825.56 l.f. against industrial*
Buffer Yard: 15' width
1 evergreen tree/30 l.f. = 28 trees required
28 trees provided
5 evergreen shrubs/30 l.f. = 138 shrubs required
138 trees provided
South: 398 l.f. against industrial
Buffer Yard: 15' width
1 evergreen tree/30 l.f. = 13 trees required
13 provided
5 evergreen shrubs/30 l.f. = 66 shrubs required
66 provided

West: 827 l.f. against industrial
Buffer Yard: 15' width
1 evergreen tree/30 l.f. = 28 required
28 provided
5 evergreen shrubs/30 l.f. = 138 required
138 proivded

Interior Parking Lots: 43,308 s.f. parking/86 spaces
Island requirements @ 10% = 4,303 s.f. islands required
5,146 s.f. provided in 12 islands
1 shade tree/island = 12 required
9 shade provide
4 ornamental provided to accommodate site lines
2 evergreen provided to provide screening of dumpster
4 shrubs/island = 48 required
57 provided

Perimeter Parking Lots: 940 l.f.
1 tree/30 l.f. = 31 require
31 provided
1 shrub/3 l.f. = 313 required*
175 provided
* Native grasses shall be used along the pond adjacent to the parking lot to help screen cars. This will accommodate sheet drainage into the detention pond.

NOTES:
1. REFER TO SHEET C8.1 FOR COURTYARD ENLARGEMENT PLANS
2. REFER TO SHEET C8.2 FOR PLANTING NOTES, PLANT SCHEDULE, AND PLANTING DETAILS

North 0 15' 30' 60' Scale 1" = 30'-0"

ALYSSA P. PRAZEAU REGISTERED No. 2002-132 STATE OF INDIANA LANDSCAPE ARCHITECT
CERTIFIED BY

PLANTING PLAN

PREPARED FOR:
MAINSTREET PROPERTY GROUP, LLC
109 W. JACKSON STREET
CICERO, INDIANA 46034

PROJECT:
MAINSTREET HEALTH AND WELLNESS
SUITES OF WESTFIELD
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1 TAC Review	03/09/12

SHEET NO.
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12 S. Main Street, Suite 100 Fortville, IN 46040
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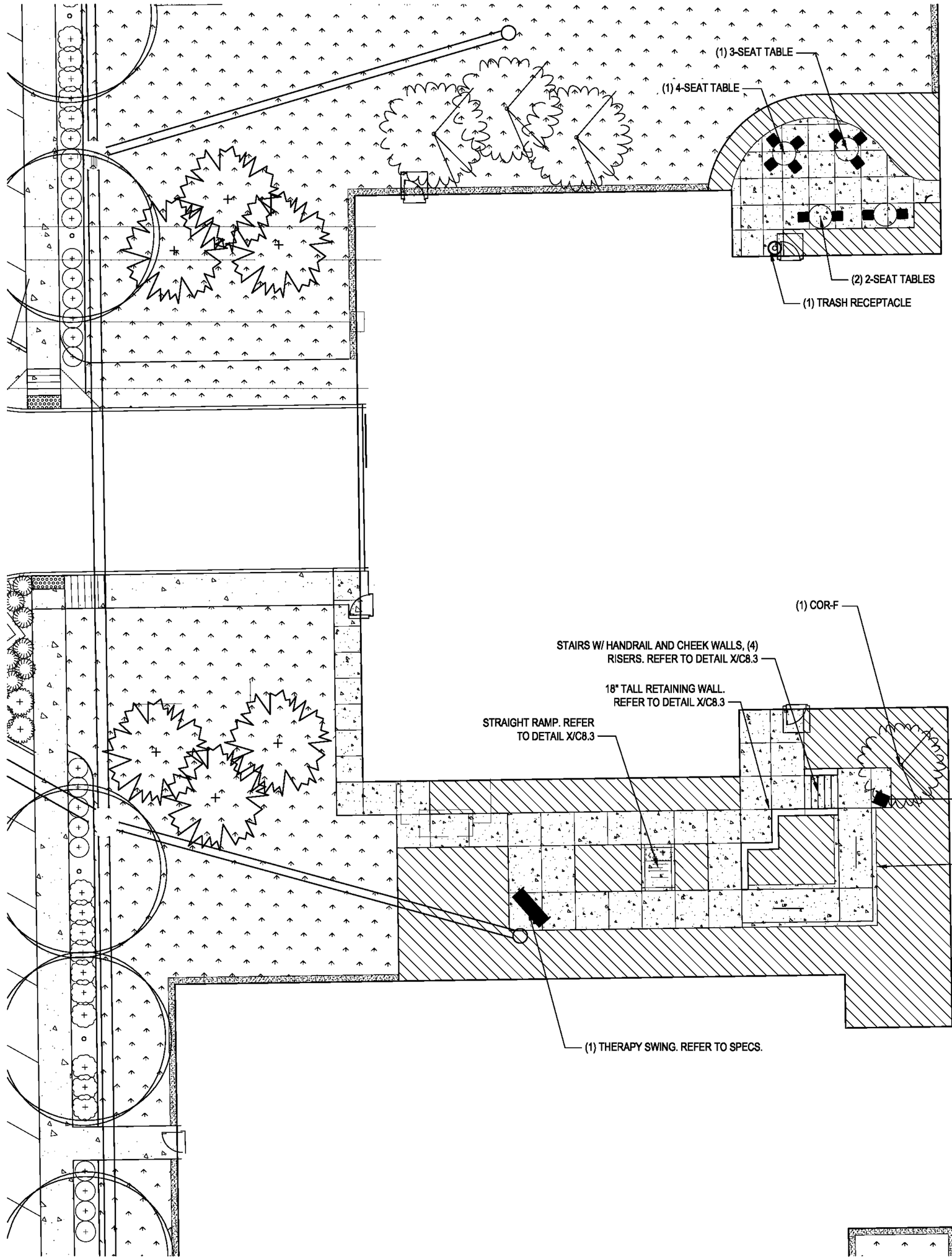

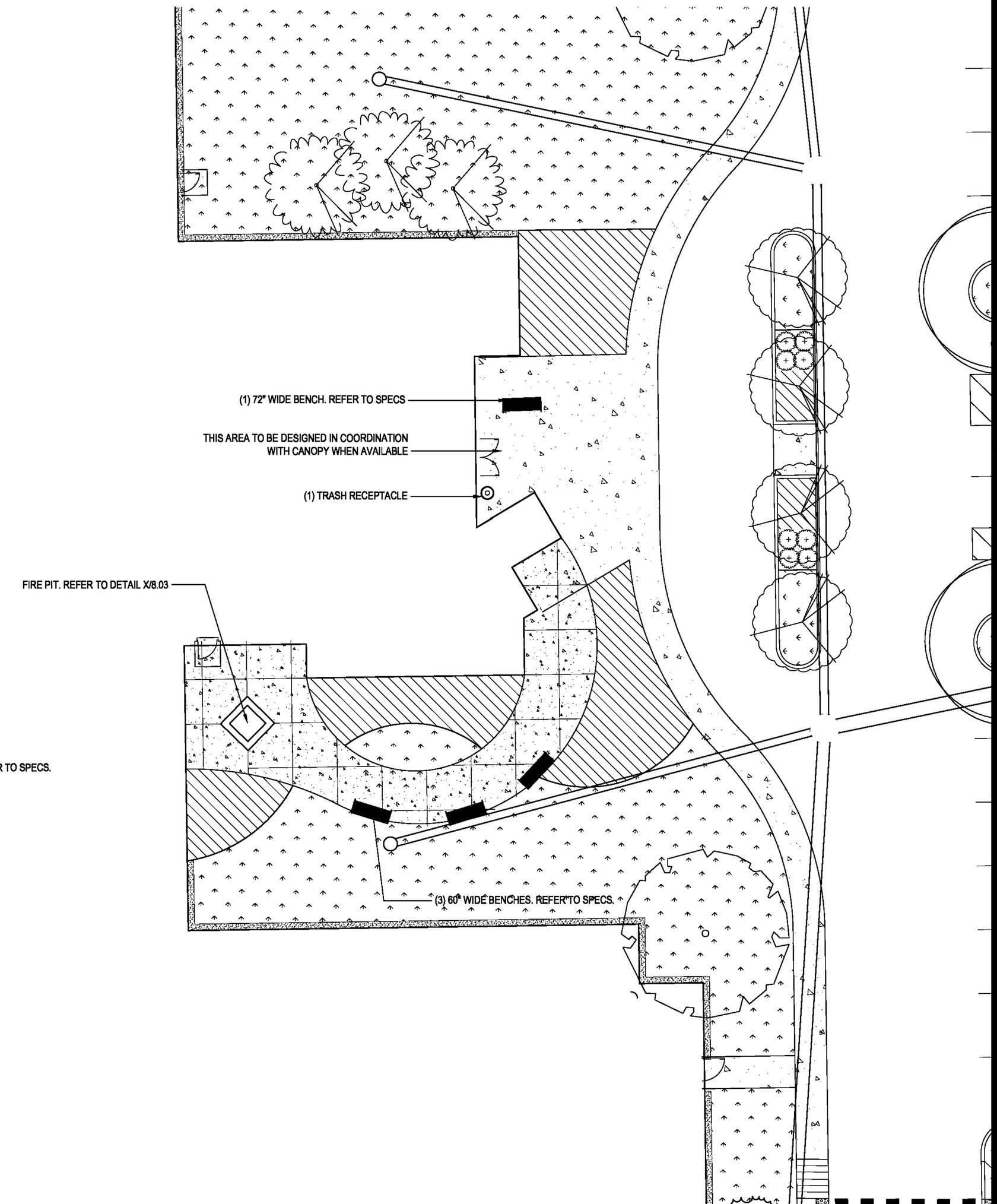

North 0 5' 10' 20'
Scale 1" = 10'-0"

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CERTIFIED BY

ENLARGED COURTYARD PLAN

PREPARED FOR:
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PROJECT:
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SUITES OF WESTFIELD
WESTFIELD, INDIANA

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DRAWN BY:	APP
CHK'D BY:	APP
JOB NO.	20110073B

REVISIONS	

SHEET NO.
C8.1
OF

PLANT SCHEDULE

Symbol	Botanical Name	Common Name	Size	Container	Notes
SHADE TREES					
Ace-a	Acer rubrum 'Armstrong'	Armstrong Red Maple	2" cal.	B&B	strong central leader, matched
Ace-s	Acer saccharum 'Legacy'	Legacy Sugar Maple	2" cal.	B&B	full, matched
Bet-n	Betula nigra	River Birch	6' ht.	B&B	clump form, 3 divisions
Car-c	Carpinus caroliniana	American Hrombeam	2" cal.	B&B	
Cla-l	Cladastrus lutea	Yellowwood	6' ht.	B&B	full, matched
Gle-t	Gleditsia triacanthos inermis 'shademaster'	Shademaster Honeylocust	2" cal.	B&B	full
Lir-t	Liriodendron tulipifera	Tulip Tree	2" cal.	B&B	strong central leader
Pla-x	Platinus x acerifolia	London Plane Tree	2" cal.	B&B	symmetrical, full
Que-r	Quercus rubra	Red Oak	2" cal.	B&B	dug in spring, symmetrical
Ulm-x	Ulmus 'Princeton'	Princeton Elm	2" cal.	B&B	symmetrical, matched
ORNAMENTAL TREES					
Ame-x	Amelanchier x grandiflora 'Autumn Brilliance	Autumn Brilliance Serviceberry	6' ht.	B&B	multi-stemmed, 3-5 stems
Cer-c	Cercis canadensis	Redbud	6' ht.	B&B	multi-stemmed
Cra-c	Crataegus crus galli var. inermis	Thornless Cockspur Hawthorn	6' ht.	B&B	symmetrical, matched
EVERGREEN TREES					
Abi-c	Abies concolor	White Fir	6' ht.	B&B	symmetrical, full
Pic-a	Picea abies	Norway Spruce	6' ht.	B&B	symmetrical, full
Pic-g	Picea glauca 'Densata'	Black Hills Spruce	6' ht.	B&B	symmetrical, full
Pic-p	Picea pungens 'Glauca'	Colorado Blue Spruce	6' ht.	B&B	symmetrical, full
DECIDUOUS SHRUBS					
Cle-a	Clethra alnifolia 'Hummingbird'	Hummingbird Summersweet	24"	container	space @ 3'-0" o.c.
Ite-v	Itea virginica 'Henry's Garnet'	Henry's Garnet Sweetspire	24"	container	space @ 3'-0" o.c.
EVERGREEN SHRUBS					
Ile-b	Ilex x meserveae 'Blue Princess'	Blue Princess Holly	24"	container	space @ 6'-0" o.c. provide one male species per grouping
Ile-x	Ilex x 'Willemer'	Emerald Magic Holly	24"	container	space @ 3'-0" o.c.
Ile-m	Ilex x meserveae 'Mesog'	China Girl Holly	24" ht.	container	space @ 6'-0" o.c. provide one male species per grouping
Jun-x	Juniperus virginiana 'Grey Owl'	Grey Owl Juniper	18"	container	space @ 4'-0" o.c. allow to mass
Leu-f	Leucothoe fontanesiana 'Rainbow'	Rainbow Vareigated Leucothoe	18"	container	space @ 4'-0" o.c., allow to mass
Myr-p	Myrica pensylvanica	Bayberry	24"	container	space @ 5'-0" o.c. allow to colonize
Tax-m	Taxus x median 'Brownii'	Brown's Spreading Yew	24"	container	space @ 5'-0" o.c. allow to mass
Tax-x	Taxus x media 'Ward'	Ward Yew	24" ht.	container	space @ 3'-6" o.c. allow to mass

Area to receive seeded lawn

Area to receive native plugs

Area to receive low mow seeded lawn

GENERAL LANDSCAPE & PLANTING NOTES

1. Refer to Project Manual for Planting Specifications and Topsoil requirements. Refer to Plant Schedule and Planting Details for additional information.
2. 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. On-site adjustments may be required.
3. Rootballs shall meet or exceed size standards as set forth in 'American Standards for Nursery Stock'. MAIN LEADERS OF ALL TREES SHALL REMAIN INTACT.
4. Remove from the site any plant material that turns brown or defoliates within five (5) days after planting. Replace immediately with approved, specified material.
5. 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. Plant material quantities shown on plan are minimum quantities. Additional material may be needed to meet spacing requirements and field conditions.
6. Seed all areas disturbed by construction activities that are not otherwise noted to receive pavement, planting bed, or sod treatment.
7. The Contractor shall install and/or amend topsoil in all proposed bed areas to meet Specifications. Contractor shall coordinate quantity and placement of topsoil. Landscaper shall verify depth of topsoil prior to plant installation. (Refer to specifications for topsoil source and placement requirements)
8. All tree locations shall be marked with 2x2" stakes prior to planting for review and approval by the Landscape Architect. Any plant material installed in an incorrect location, by the judgment of the Landscape Architect, shall be reinstalled at the Contractor's expense.
9. All plant beds shall receive 3" minimum of shredded hardwood bark mulch (unless otherwise noted).
10. Verify all utility locations in the field prior to beginning work. Repair all damaged utilities to Owner's satisfaction at no additional cost.
11. The Contractor shall maintain all plant material and lawns until the project is fully accepted by the Landscape Architect, unless otherwise noted.
12. All workmanship and materials shall be guaranteed by the Contractor for a period of one calendar year after Final Acceptance.
13. Install all plant material in accordance with all local codes and ordinances. Coordinate with the Owner to obtain any required permits necessary to complete work.
14. Contractor shall test all tree pits for drainage. Any tree pit that holds water for more than 24 hours shall be installed using tree pit drainage.
15. Tree Protection Fencing is the responsibility of the Contractor. Minimum protected area shall include the full drip line of the canopy. NO construction activities, material storage, etc. may occur within that area. The Contractor shall ensure that no soil compaction or tree damage occurs in any Protected areas, at any time during the construction process.
16. Trees shall be matched in groups unless otherwise noted.

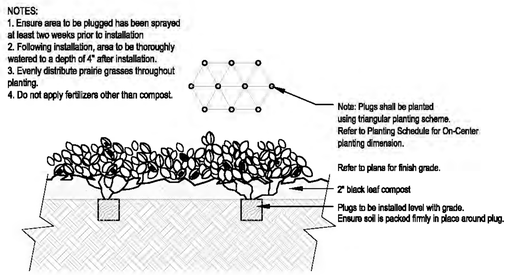
DETENTION POND PLUG INSTALLATION NOTES

1. Do not depend on locations of plug installations shown in drawings. Establish the correct zones of specified plantings based on actual hydrology of the site and detention ponds.
2. Pond shall be filled to normal pool level prior to the installation of plugs.
3. Plants to be installed between April 1 and July 31st. Do NOT install plugs after September 1st.
4. Prior to installation of plugs, install 5' tall orange plastic fence with max. 1" square openings along both sides of planting zones to keep geese and other water foul from eating plugs. Posts to be a maximum of 15' spacing. Fence material to extend under the water. Install bailing twine between fences across the top of plantings in an "x" pattern @ 1' o.c. Fence and bailing twine to be removed after one growing season or once plug roots are established.
5. Do not install plugs until lawn has been established.
6. Ensure plugs receive 1" of water per week during the first 60 days or during the course of the maintenance period.
7. Remove all invasive species during the first growing season.
8. Provide 2" mulch around newly installed plugs where standing water is not present.

PLUG SPECIES

Install plugs 12" o.c. triangular spacing

SEDGES	
Carex annectans var xanthocarpa	Yellow Fox Sedge
Carex emoryi	Riverbank Tussock Sedge
Carex frankii	Frank's Sedge
Carex grayii	Burr Sedge
Carex vulpinoidea	Fox Sedge
WILDFLOWERS	
Asclepias incarnata	Marsh Milkweed
Aster firmus	Shining Aster
Aster novae-angliae	New England Aster
Eupatorium perfoliatum	Boneset
Gentiana andrewsii	Bottle Gentian
Iris virginica shrevei	Blue Flag
Lobelia cardinalis	Cardinal Flower
Lobelia siphilitica	Great Blue Lobelia
Mimulus ringens	Monkeyflower
Penstemon calycosus	Smooth Penstemon
Penstemon digitalis	Foxglove Beardtongue
Pycnonthemum virginianum	Mountain Mint
Rudbeckia subtomentosa	Sweet Black-eyed Susan
Zizia aurea	Golden Alexanders



PLUG INSTALLATION
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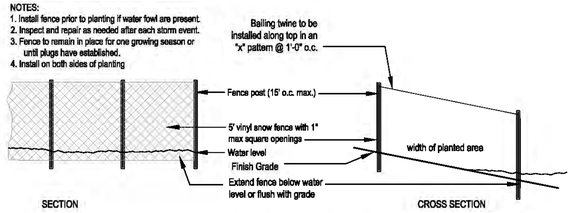
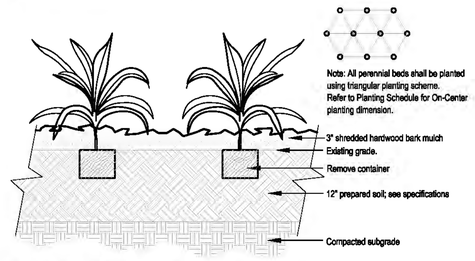


GOOSE FENCE @ DETENTION POND
Not to Scale



PERENNIAL PLANTING
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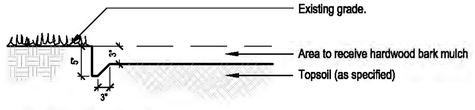

SPADE EDGE
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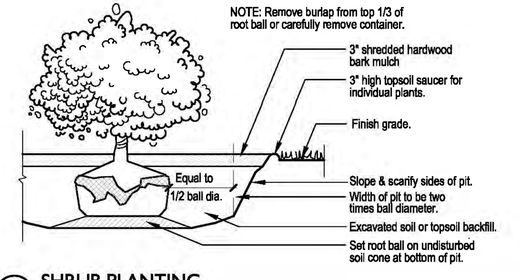

SHRUB PLANTING
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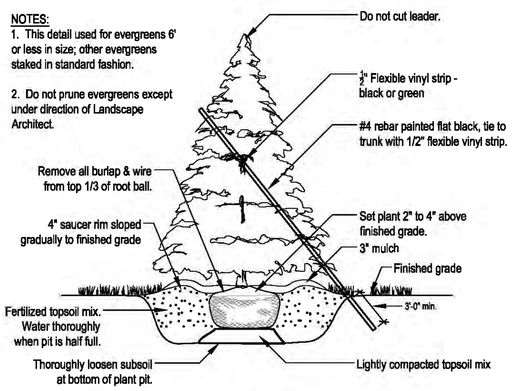
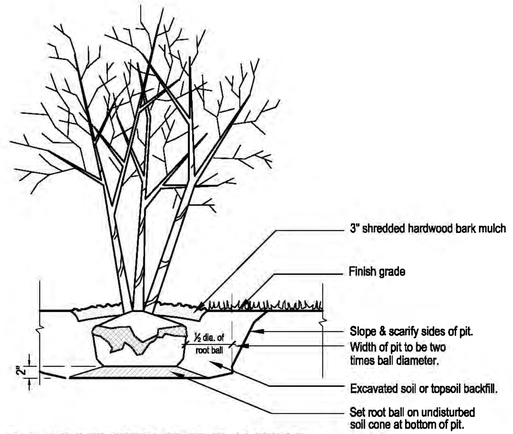
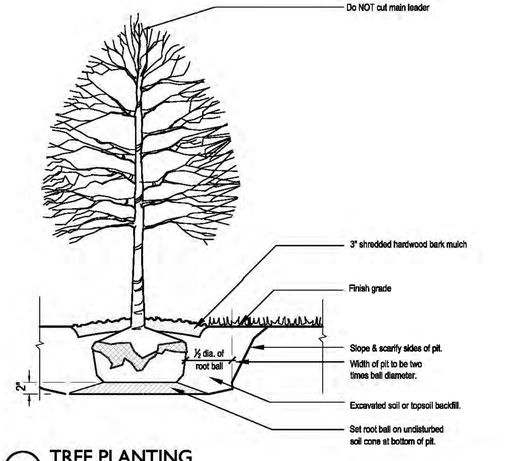


EVERGREEN TREE PLANTING
Not to Scale



MULTI-STEM TREE PLANTING
Not to Scale



TREE PLANTING
Not to Scale

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ALYSSA P. PRAZEAU
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No. 2002-132
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LANDSCAPE ARCHITECT
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PLANTING NOTES AND DETAILS

PREPARED FOR:
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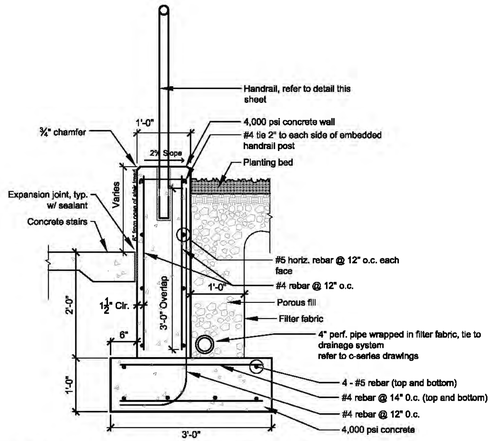
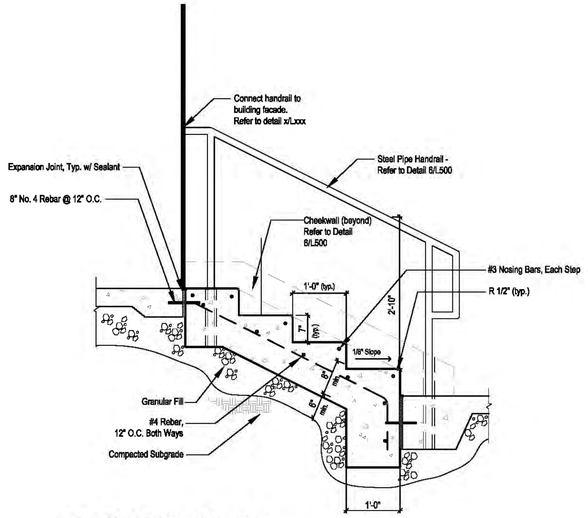
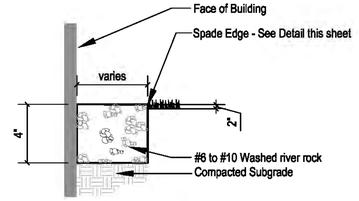


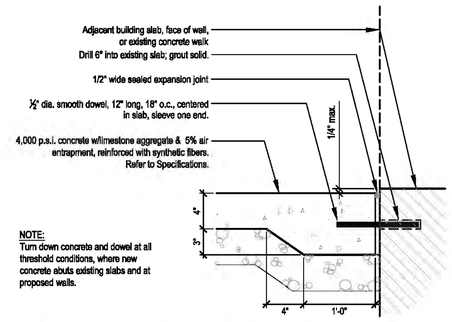
9 CONCRETE WALL WITH HANDRAIL AT STAIRS
Scale: 3/4"=1'-0"



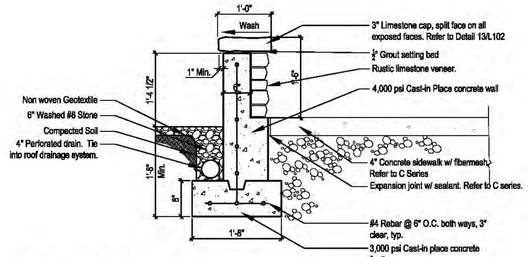
6 CONCRETE STEPS
Scale: 3/4"=1'-0"



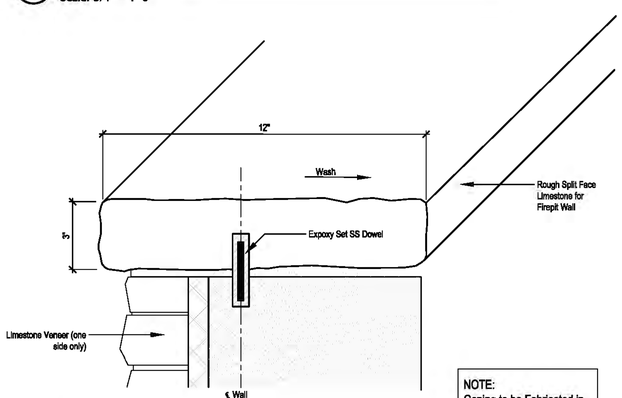
4 MOW STRIP
Not to Scale



3 DOWELS IN CONCRETE @ THRESHOLD
Scale: 1"=1'-0"



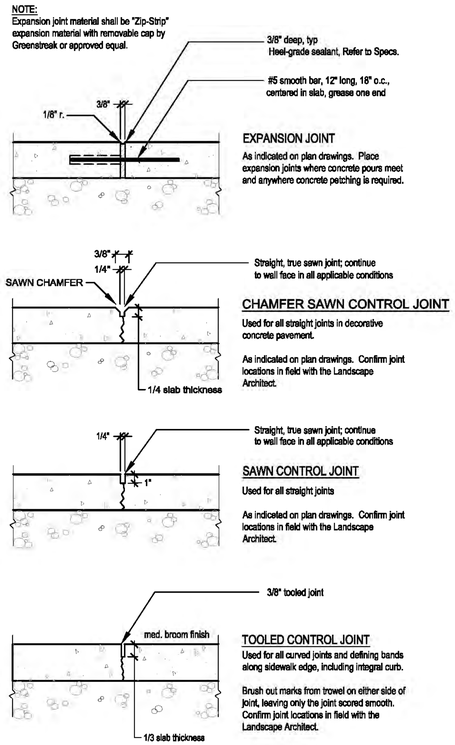
8 RAISED PLANTER WALL
Scale: 3/4" = 1'-0"



CONDITION 1 - FIREPIT

NOTE:
Coping to be Fabricated in 4' Sections.

7 SEATWALL COPING
Not to Scale



5 CONCRETE JOINTING
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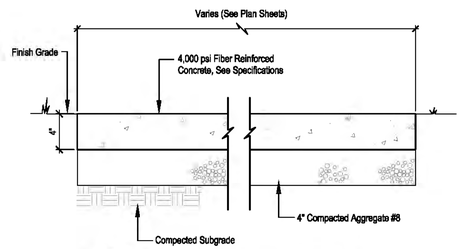
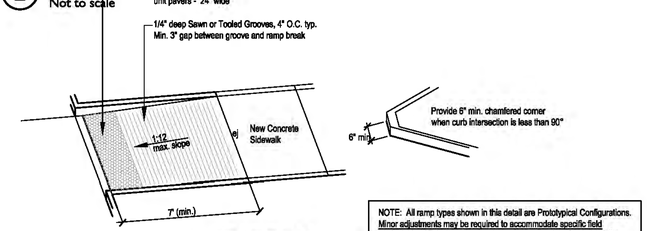


NOTES:
1. Control joints, expansion joints and edges of sidewalks indicated as hand-tooled shall be dressed after each finishing operation.
2. Provide expansion joints at intersection with another sidewalk, between walks and building slabs, and at other points as indicated on the drawings.
3. Refer to plan drawings for locations of control and expansion joints.

2 CONCRETE SLAB WITH FIBER
Not to scale



STRAIGHT RAMP

NOTE: All ramp types shown in this detail are Prototypical Configurations. Minor adjustments may be required to accommodate specific field conditions. Coordinate adjustments and alterations in the field with the Landscape Architect. Ensure that positive drainage is maintained on and around each ramp to prevent birdbaths and ponding.

1 ACCESSIBLE RAMP CONFIGURATIONS
Not to scale

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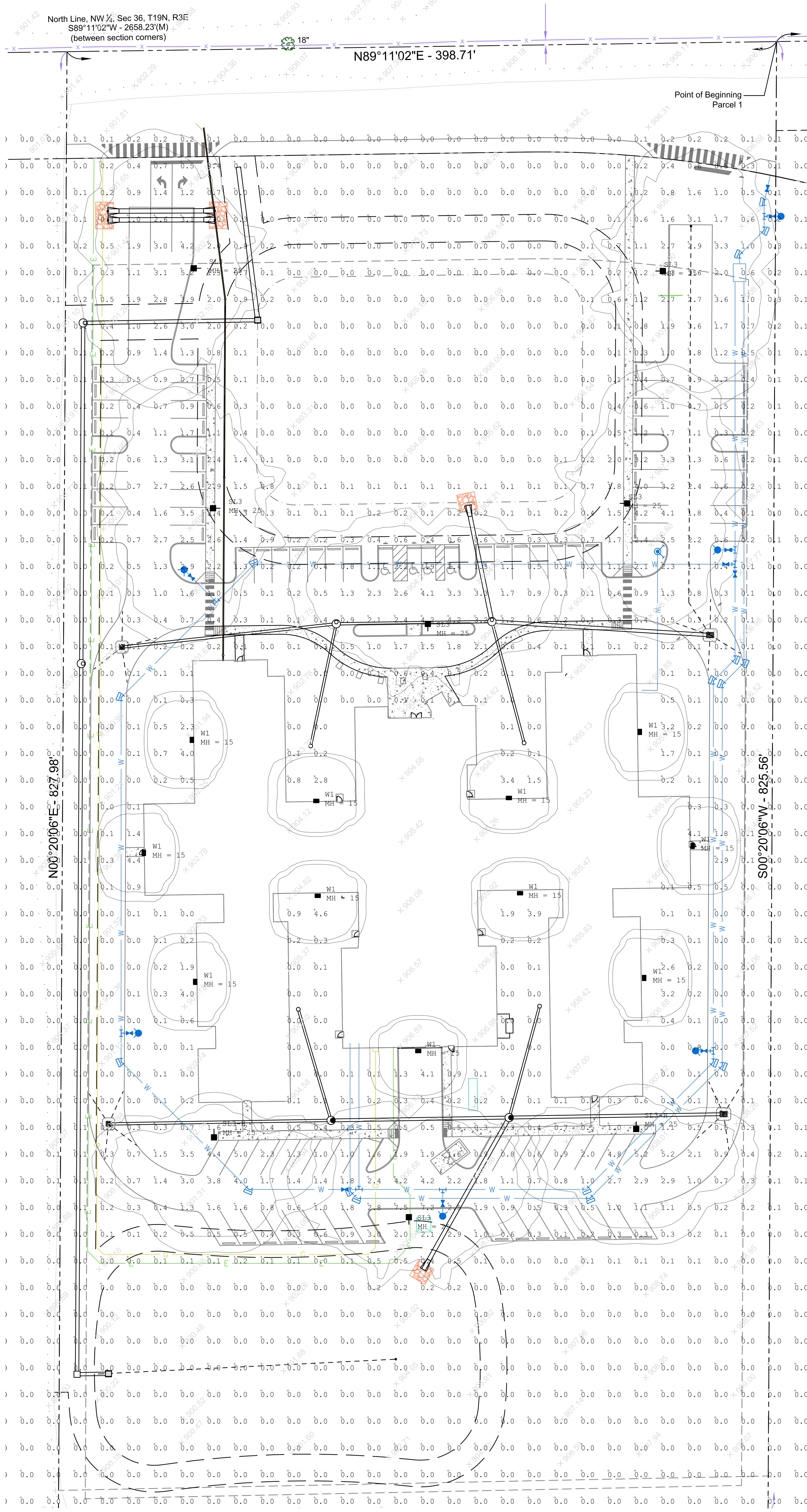


SITE LIGHTING NOTES:

SCALE: 1"=40'

1. FOOT CANDLE LEVELS ARE MAINTAINED WITH A .72 LIGHT LOSS FACTOR FOR POLE MOUNTED LIGHTS AND A .81 LIGHT LOSS FACTOR FOR WALL MOUNTED LIGHTS.

2. LIGHT POLES ARE 23' TALL MOUNTED ON BASES FOR A TOTAL FIXTURE MOUNTING HEIGHT OF 25'.

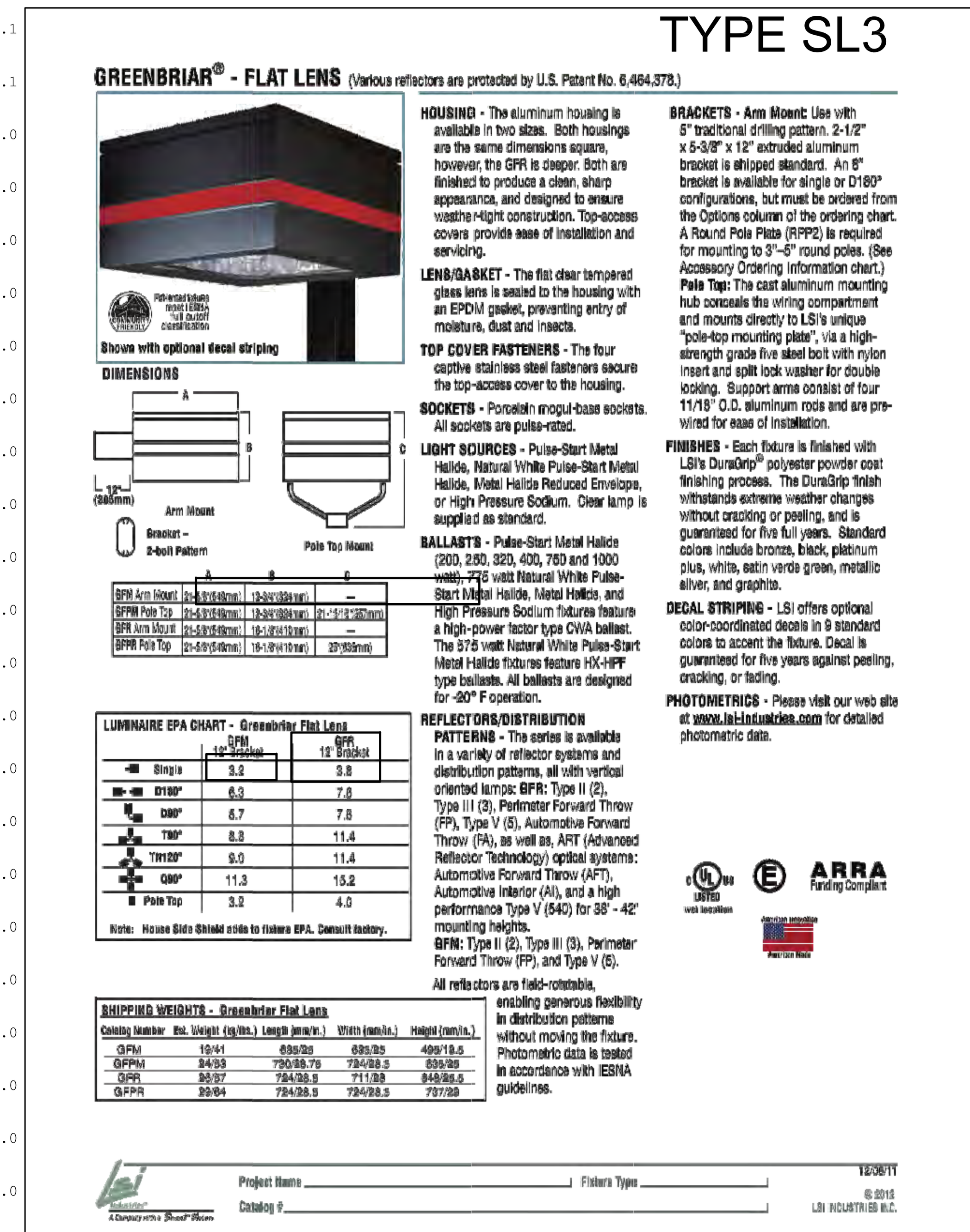
3. FOOT CANDLE LEVELS ARE CALCULATED 3' ABOVE GRADE.

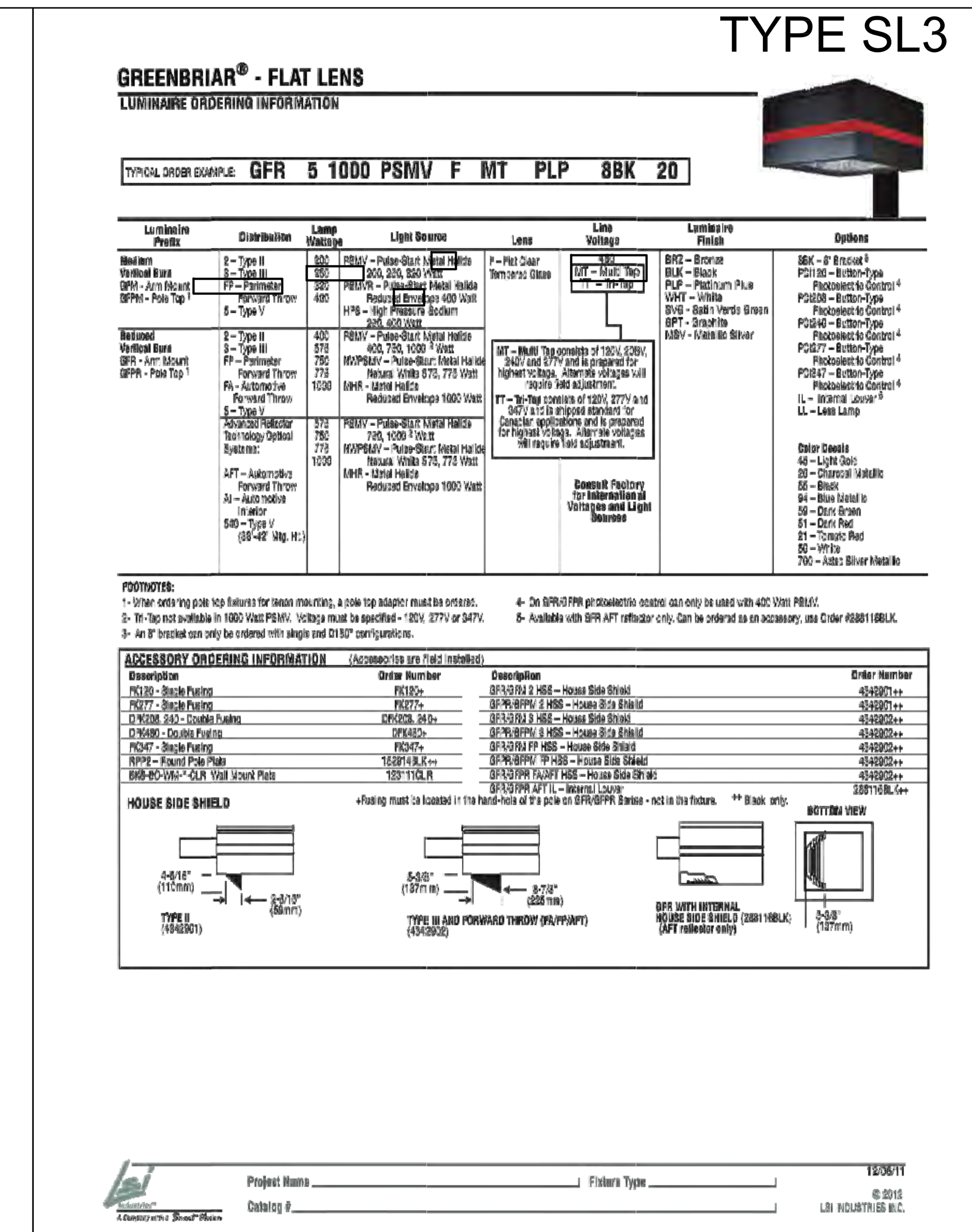
Calculation Summary

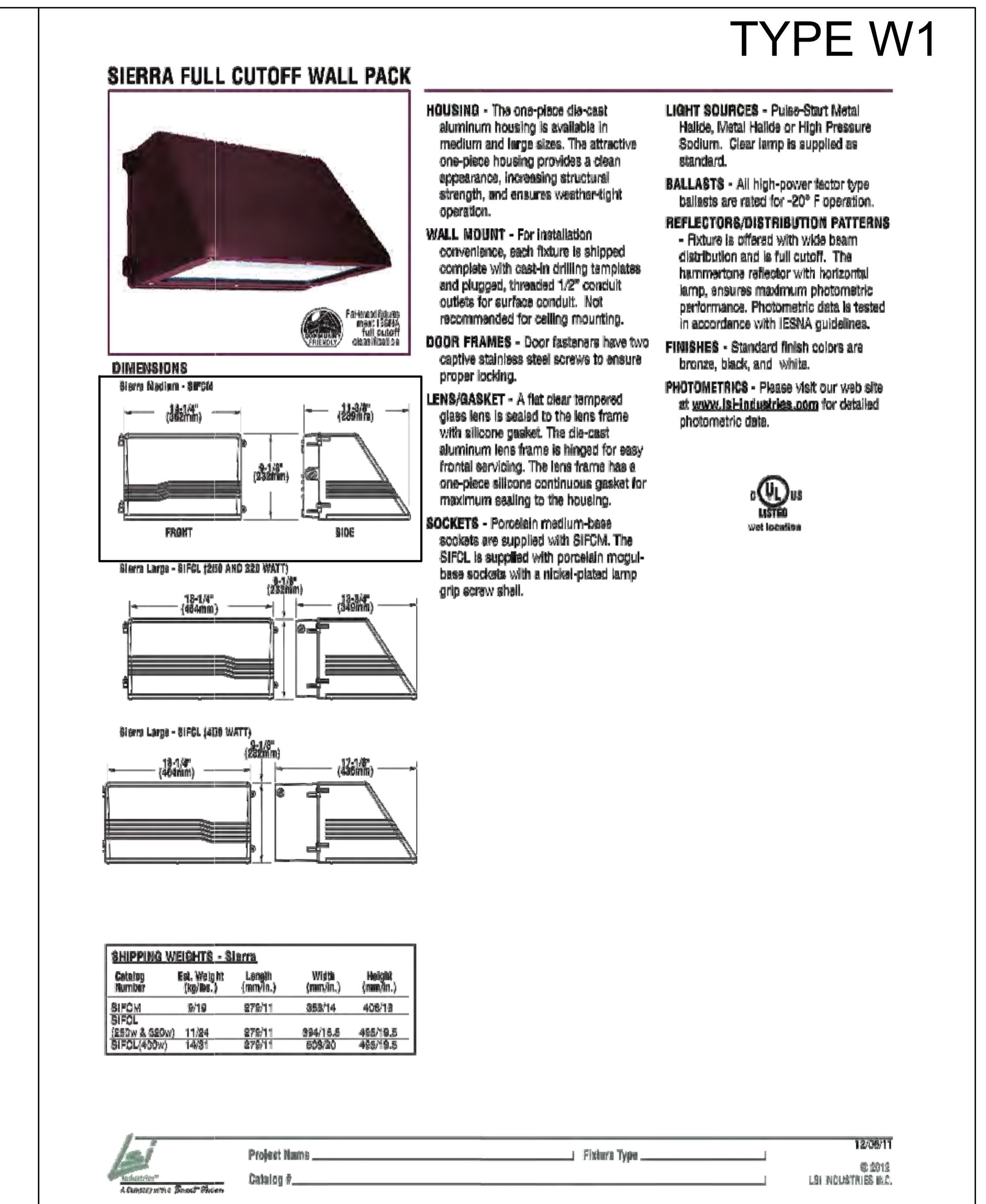
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
all points	Illuminance	Fc	0.43	7.5	0.0	N.A.	N.A.
All Paved Areas	Illuminance	Fc	1.10	7.5	0.0	N.A.	N.A.
parking spaces - north	Illuminance	Fc	1.29	4.2	0.1	12.90	42.00
parking spaces - south	Illuminance	Fc	1.82	7.5	0.1	18.20	75.00

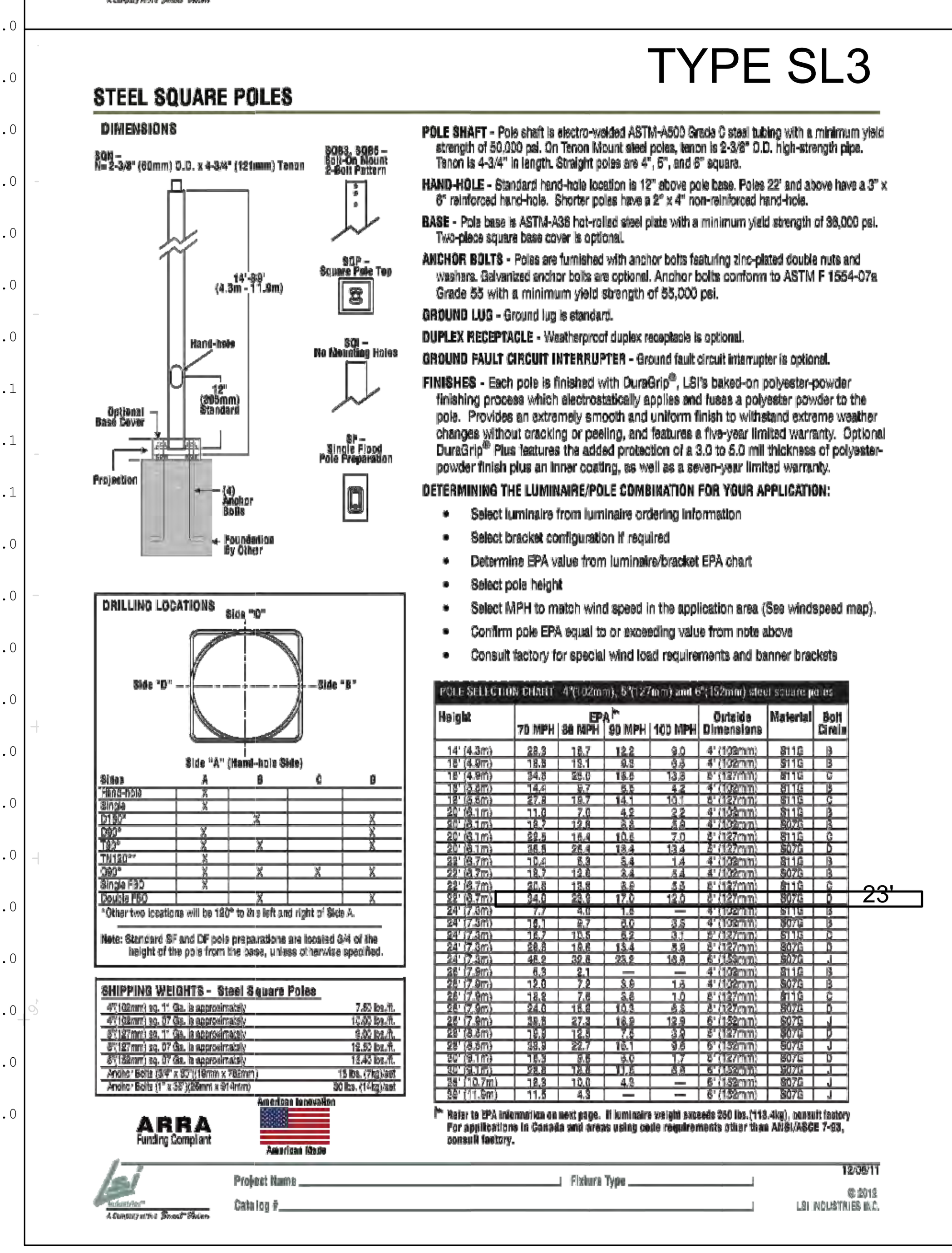
Luminaire Schedule

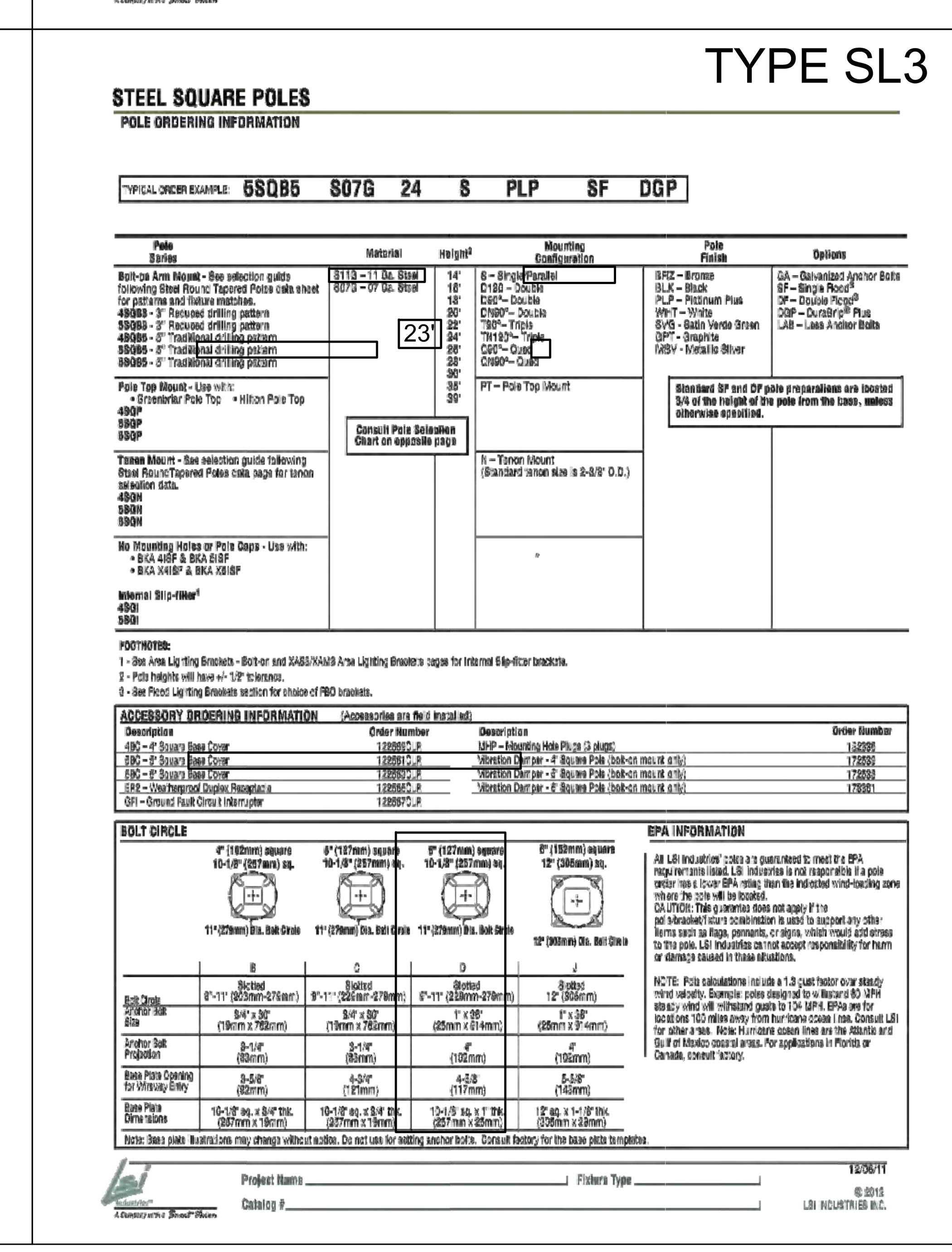
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description	Lum. Watts	Arr. Watts	Total Watts	Lumens/Lamp
	6	SL3	SINGLE	44000	0.720	GFM-3-400-PSMV-F 5SQBO S11G 24 S 5BC	452	452	2712	44000
	11	W1	SINGLE	14000	0.720	SIFCM-WB-150-MH-F	185	185	2035	14000
	2	SL3-H	SINGLE	44000	0.720	GFM-3-400-PSMV-F-HSS 5SQBO S11G 24 S 5BC WITH GLARE SHIELD	452	452	904	44000

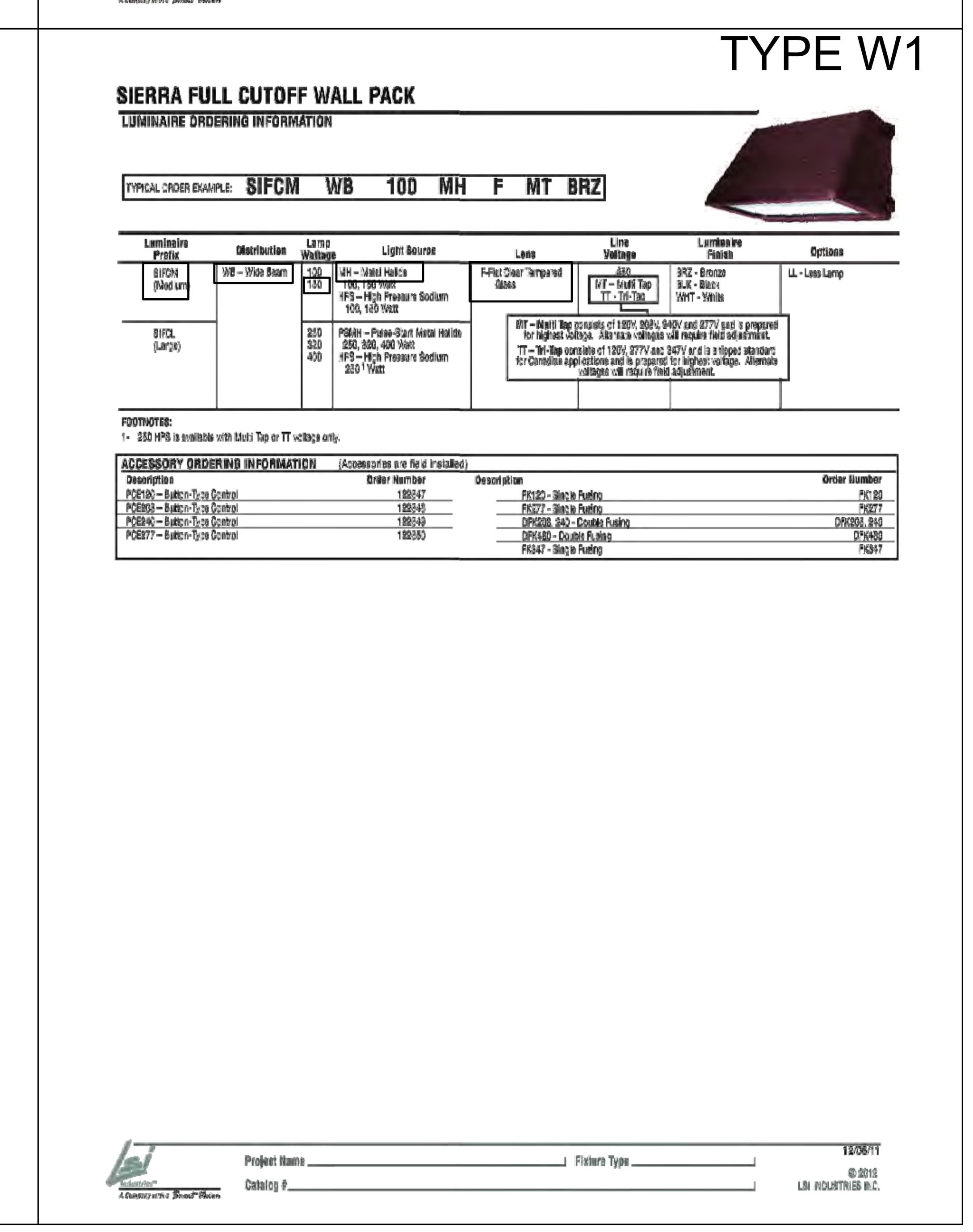












CBMC LIGHTING DISTRIBUTION
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Tel. 317-780-8350 Fax. 317-780-8355

COMM. DATE: 01/30/2012

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FILE #: CB3685 R1.dwg

PROJECT #
CB3685 R3

AMERICAN STRUCTUREPOINT INC.
7260 SHADELAND STATION
INDIANAPOLIS, IN 46256-3957
TEL 317.547.5580 FAX 317.543.0270
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CERTIFIED BY

SITE LIGHTING PHOTOMETRIC PLAN

PREPARED FOR:
MAINSTREET PROPERTY GROUP, LLC
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CICERO, INDIANA 46034

PROJECT:
SKILLED CARE AND ASSISTED LIVING FACILITY
186TH STREET
WESTFIELD, INDIANA

DATE:	02/03/12
DRAWN BY:	WCP (CBMC)
CHK'D BY:	KDK
JOB NO.	201100738

REVISIONS

SHEET NO.
C9.1
OF