

# SITE AND BUILDING IMPROVEMENTS FOR: CITY OF ROCHESTER HILLS FIRE STATION #5

251 E. TIENKEN, ROCHESTER HILLS, MICHIGAN 48309

## OWNER

CITY OF ROCHESTER HILLS  
1000 ROCHESTER HILLS DRIVE  
ROCHESTER HILLS, MICHIGAN 48309

## ARCHITECT

CHMP, INC  
5198 TERRITORIAL ROAD  
GRAND BLANC, MICHIGAN 48439  
(810) 695-5910

## STRUCTURAL

SNYDER & STALEY ENGINEERING, P.L.C.  
3085 BAY ROAD SUITE 6  
SAGINAW, MI 48603  
(989) 797-1710  
(989) 797-1715 (FAX.)

## MECHANICAL / ELECTRICAL ENGINEER

DICLEMENTE SIEGEL DESIGN  
1075 EAST BRISTOL ROAD  
BURTON, MICHIGAN 48529  
(810) 238-10245  
(810) 238-7114 (FAX)

### SHEET No. TITLE

TS TITLE SHEET

### CIVIL

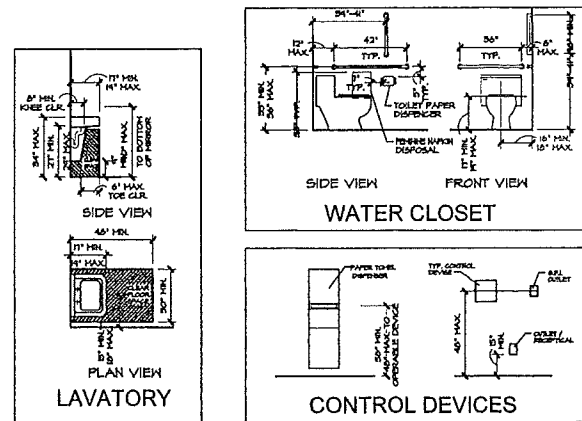
TS-1 TOPOGRAPHICAL SURVEY  
C-1 DEMOLITION PLAN  
C-2 SITE PLAN

### ARCHITECTURAL

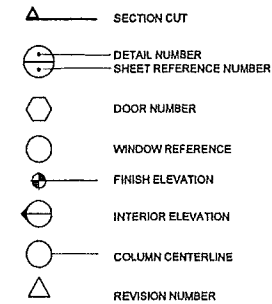
A-1 FLOOR PLAN- NEW WORK  
A-2 EXTERIOR ELEVATIONS

### ELECTRICAL

E-2 ELECTRICAL SITE PLAN



### DRAWING SYMBOLS



### ABBREVIATIONS

∠	SECTION CUT	∠	ANGLE	INT.	INTERIOR
○	DETAIL NUMBER	A.B.	ANCHOR BOLT	JAN.	JANITOR
○	SHEET REFERENCE NUMBER	A.C.	AIR CONDITIONING	J.B./J. BOX	JUNCTION BOX
○	DOOR NUMBER	ACOUST.	ACOUSTICAL	LAM.	LAMINATE
○	WINDOW REFERENCE	ADJ.	ADJUSTABLE	LAV.	LAVATORY
○	FINISH ELEVATION	A.F.F.	ABOVE FINISH FLOOR	L.L.	LANDLORD
○	INTERIOR ELEVATION	ALT.	ALTERNATE	MAS.	MASONRY
○	COLUMN CENTERLINE	ALUM.	ALUMINUM	MATL.	MATERIAL
△	REVISION NUMBER	ARCH.	ARCHITECTURAL	MAX.	MAXIMUM
				MECH.	MECHANICAL
		BLKG.	BLOCKING	MET.	METAL
		B.M.	BENCH MARK	MISC.	MISCELLANEOUS
		BOT.	BOTTOM	MIN.	MINIMUM
		BRG.	BEARING	M.O.	MASONRY OPENING
		B.U.R.	BUILT UP ROOF	N.I.C.	NOT IN CONTRACT
		CHNL.	CHANNEL	N.T.S.	NOT TO SCALE
		C.T.	CERAMIC TILE	O.C.	ON CENTER
		C.J.	CONTROL JOINT	O.D.	OUTSIDE DIAMETER
		C.L./C. & C.L.G.	CENTER LINE CEILING	OPNG.	OPENING
				OPP.	OPPOSITE
		C.O.	CLEAN OUT	PL.LAM.	PLASTIC LAMINATE
		COL.	COLUMN	PL/ P	PLATE
		CONC.	CONCRETE	PLYWD.	PLYWOOD
		CONST. JT.	CONSTRUCTION JOINT	PR.	PAIR
		CONT.	CONTINUOUS	R.A.	RETURN AIR
		DBL.	DOUBLE	R.	RADIUS
		DET.	DETAIL	R.D.	ROOF DRAIN
		DIAM.	DIAMETER	REF.	REFRIGERATOR
		DN.	DOWN	REINF.	REINFORCING
		DN.	DOWN	REQD.	REQUIRED
		DW.	DISHWASHER	S.A.	SUPPLY AIR
		D.S.	DOWN SPOUT	SFS.	SURFACE FOUR SIDES
		DWG.	DRAWING	S.C.	SOLID CORE
		EA.	EACH	SHT.	SHEET
		E.J.	EXPANSION JOINT	SPEC.	SPECIFICATION
		ELEC.	ELECTRICAL	S.S.	SERVICE SINK
		ELEV.	ELEVATION	ST.STL.	STAINLESS STEEL
		EQ.	EQUAL	STL.	STEEL
		EST.	ESTIMATE	STOR.	STORAGE
		E.W.	EACH WAY	STR.	STRUCTURAL
		E.W.C.	ELECTRICAL WATER COOLER	T.	THERMOSTAT
		EXP.	EXPANSION	T.C.	TOP OF CURB
		EXT.	EXTERIOR	TEN.	TENANT
		FIN. FLR./F.F.	FINISH FLOOR FINISH	T.G.C.	TENANT'S GENERAL CONTRACTOR
		FIN.	FINISH	T.P.	TOP OF PAVING
		FLR.	FLOOR	TYP.	TYPICAL
		F.S.	FLOOR SINK	U.N.O.	UNLESS NOTED OTHERWISE
		F.B.O.	FURNISHED BY OWNER	V.I.F.	VERIFY IN FIELD
		F.D.	FLOOR DRAIN	V.T.R.	VENT THROUGH ROOF
		FDN.	FOUNDATION	W.H.	WATER HEATER
		GA.	GAUGE	W.I.	WROUGHT IRON
		GALV.	GALVANIZED	W.P.	WORK POINT
		G.C.	GENERAL CONTRACTOR	W.R.	WATER RESISTANT
		G.I.	GALVANIZED IRON	WT.	WEIGHT
		H.B.	HOSE BIBB	W.	WITH
		H.C.	HOLLOW CORE	W.O.	WITHOUT
		H.W.E.	HARDWARE		
		H.M.	HOLLOW METAL		
		I.D.	INSIDE DIAMETER		
		INSUL.	INSULATION		

### BUILDING CODE INFORMATION

#### CODE REVIEW INFORMATION - FIRE STATION #5

##### APPLICABLE CODES

ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED. ALL PERMITS AND LICENSES NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR INVOLVED. APPLICABLE CODE INCLUDE, BUT NOT LIMITED TO THE FOLLOWING

1. BUILDING AND STRUCTURAL	MICHIGAN BUILDING CODE	(2012)
2. PLUMBING	MICHIGAN BUILDING CODE	(2012)
3. MECHANICAL	MICHIGAN BUILDING CODE	(2012)
4. ELECTRICAL	NATIONAL ELECTRICAL CODE	(2011)
5. BARRIER FREE ACCESS	MICHIGAN BUILDING CODE (CHAPTER 11)	(2009)

##### CODE REVIEW

BUILDING USE GROUP (307.1)	MIXED USE SEPARATED (2 HR. FIRE BARRIER WALL)	
B - BUSINESS (CIVIC ADMINISTRATION)	2,601 GSF	
R-2 RESIDENTIAL (DORMITORIES)	645 GSF	
S-2 STORAGE (VEHICLE STORAGE)	2,513 GSF	
<b>TOTAL AREA</b>	<b>6,759 GSF</b>	

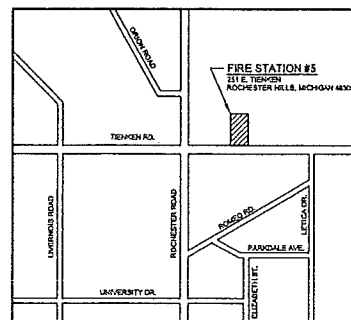
TYPE OF CONSTRUCTION	II B NON-COMBUSTIBLE	
B - BUSINESS	ALLOWABLE AREA:	R-2 - RESIDENTIAL
	3 STORIES / 23,000 S.F.	ALLOWABLE AREA:
	ACTUAL AREA:	4 STORIES / 16,000 S.F.
	1 STORY / 2,601 G.S.F.	ACTUAL AREA:
	1 STORY / 645 G.S.F.	
S-2 - STORAGE	ALLOWABLE AREA:	
	3 STORIES / 26,000 S.F.	
	ACTUAL AREA:	
	1 STORY / 2,513 G.S.F.	

ALLOWABLE HEIGHT/ AREA (TABLE 503)	ACTUAL AREA:	
	1 STORY / 6,759 G.S.F.	

FIRE PROTECTION (506.3)	MIXED USE SEPARATED (2 HR. FIRE BARRIER WALL)	
	R-2 RESIDENTIAL (DORMITORY).....	SPRINKLED
	B-BUSINESS ADMINISTRATION.....	SPRINKLED
	S-2 STORAGE (VEHICLE STORAGE).....	SPRINKLED

OCCUPANT LOAD (TABLE 1004.1.1)	B - BUSINESS		
	- ADMINISTRATION	2,601 G.S.F./100 =	26 OCCUPANTS
	R-2 - RESIDENTIAL		
	- DORMITORIES	645 G.S.F./50 =	13 OCCUPANTS
	S-2 - STORAGE		
	- VEHICLE STORAGE	2,513 G.S.F./300 =	8 OCCUPANTS
	<b>TOTAL:</b>		<b>48 OCCUPANTS</b>

EXITS REQUIRED (TABLE 1021.1)	FOR 1-500 OCCUPANTS	2 EXITS
	EXITS PROVIDED	3 EXITS

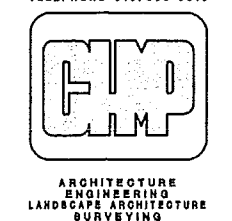


LOCATION MAP  
NOT TO SCALE



**TITLE SHEET**  
PROJECT No. 14003900  
DECEMBER 11, 2014  
ISSUED FOR: SITE PLAN APPROVAL  
CITY FILE #14-019

**CHMP INC.**  
5198 TERRITORIAL ROAD  
GRAND BLANC, MI 48439  
TELEPHONE 810/695-5910



**LEGEND (EXISTING)**

- |                           |                                 |                    |                                 |
|---------------------------|---------------------------------|--------------------|---------------------------------|
| • METAL OR CONC POST      | — GAS                           | — CONCRETE         | • F.P.K. FOUND P.K. NAIL        |
| ■ WALLBOX                 | — SANITARY SEWER (S.W.)         | — ASPHALT          | ○ SINKHOLE                      |
| □ BOX                     | — STORM SEWER (S.W.)            | — GRAVEL           | • CATCH BASIN                   |
| ~ WATER FOUNTAIN          | — WATERMAIN (W.M.)              | • SECTION CORNER   | • SEWER CLEAN OUT               |
| ○ PARKING METER           | — OVERHEAD WIRE (O.H.W.)        | ① TRANSVERSE POINT | ○ GAS METER                     |
| ○ BILLBOARD OR LARGE SIGN | — UNDERGROUND ELECTRIC (E.L.E.) | ② STRUCTURE NUMBER | • GAS SHUT OFF VALVE            |
| ○ BASKETBALL HOOP         | — UNDERGROUND PHONE (P.H.)      | ③ POINT NO.        | • VALVE BOX                     |
| ○ BOLLARD                 | — UNDERGROUND CABLE (C.B.)      | ④ SPOT ELEVATION   | • WATER SHUT OFF VALVE          |
| ① STAKE OR SCULPTURE      | — OVERHEAD WIRE (O.H.)          | ⑤ U.C.             | • GATE VALVE & WELL             |
| ■ BENCH                   | — WOOD FENCE                    | ⑥ F.A.             | • WATER SHUT OFF VALVE          |
| • INVERT ELEVATION        | — WOVEN WIRE FENCE (W.W.F.)     | ⑦ CONC.            | • FIRE HYDRANT                  |
| ○ CORRUGATED METAL PIPE   | — GUARD RAIL                    | ⑧ ASPH.            | • SPRINKLER VALVE BOX           |
| • STAMP                   | — CENTERLINE OF DITCH OR SWALE  | ⑨ ASPH.            | • LAMP SPRINKLER HEAD           |
| ○ CONIFEROUS TREE         | — DITCH                         | ⑩ ASPH.            | • HAND HOLE                     |
| ○ DECAIDUOUS TREE         | — DITCH BANK/TOP OF SLOPE       | ⑪ ASPH.            | • ELECTRIC RISER OR METER       |
| • DECIDUOUS SHRUB         | — PROPERTY LINES                | ⑫ ASPH.            | • TELEPHONE RISER               |
| ○ CONIFEROUS SHRUB        | — EASEMENTS                     | ⑬ ASPH.            | • CABLE TV RISER                |
|                           | — RAILROAD                      | ⑭ ASPH.            | • AIR CONDITION UNIT            |
|                           |                                 | ⑮ ASPH.            | • UTILITY POLE                  |
|                           |                                 | ⑯ ASPH.            | • UTILITY POLE WITH TRANSFORMER |
|                           |                                 | ⑰ ASPH.            | • LIGHT POLE                    |
|                           |                                 | ⑱ ASPH.            | • FOUND MONUMENT                |

ENGINEER'S SEAL

SURVEYOR'S SEAL

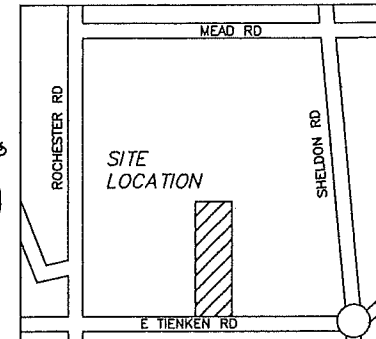
Timothy L. Edie, P.S. #53496

**LEGAL DESCRIPTION**

**PARCEL**

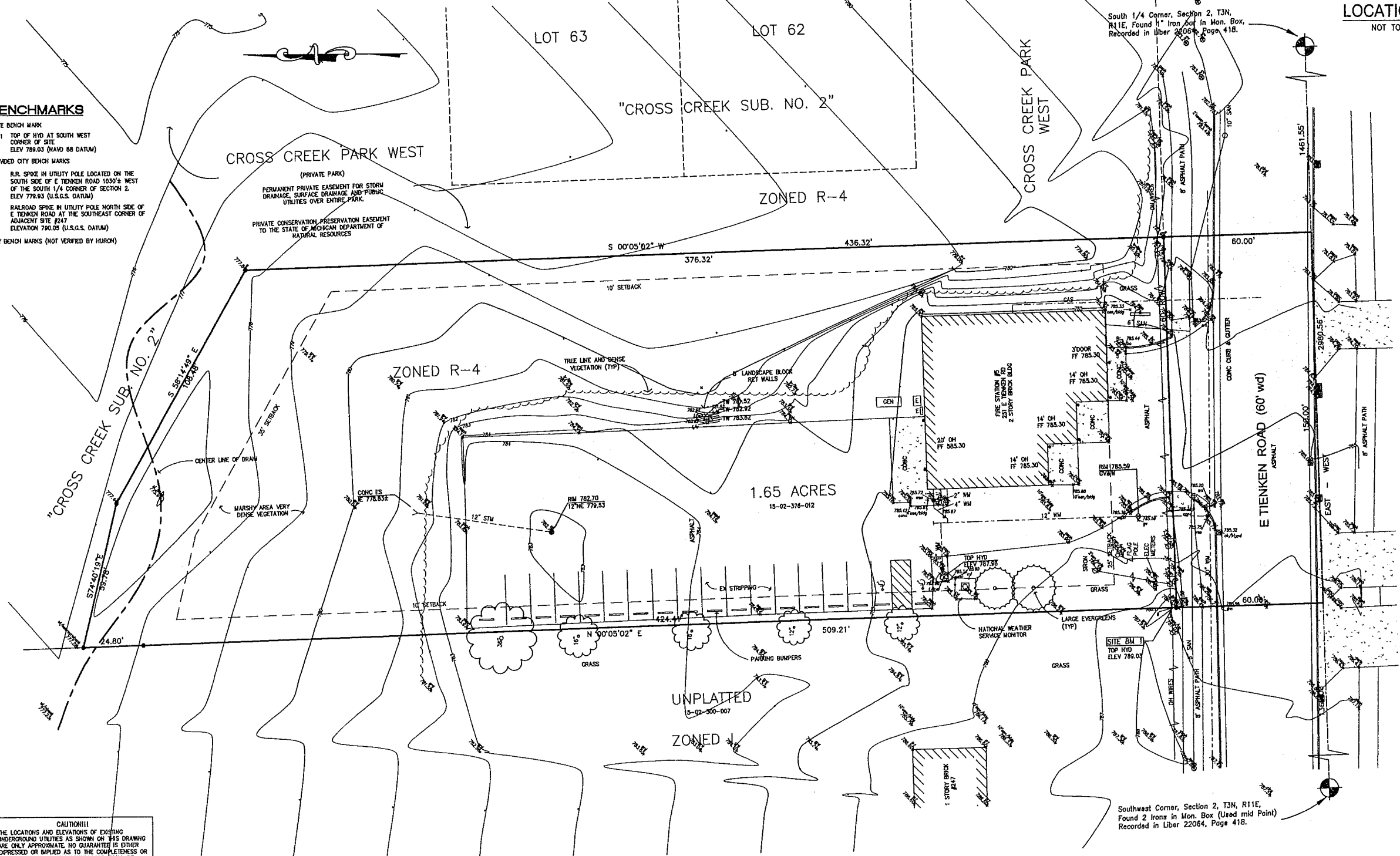
A parcel of land being a part of the Southwest 1/4 of Section 2, T3N, R11E, City of Rochester Hills, Oakland County, Michigan and described as: Beginning at a point distant East 1369.00 feet from the Southwest corner of said Section 2; thence N. 00° 05' 02" E. 509.21 feet; thence S. 74° 40' 19" E. 59.78 feet; thence S. 58° 14' 49" E. 108.48 feet; thence S. 00° 05' 02" W. 436.32 feet to a point on the South line of said Section 2; thence West 150.00 feet along the South line of said Section 2 to the point of beginning of this description. Said parcel contains 1.65 acres, more or less.

I hereby certify that I have boundary surveyed and mapped the above or attached described parcel(s) of land that the error of closure is no greater than 1 in 5000 and that the survey is in full compliance with Section No. 3 Act 132 P.A. 1970



**BENCHMARKS**

- SITE BENCH MARK**
- BM 1 TOP OF IRON AT SOUTH WEST CORNER OF SITE  
ELEV 789.03 (NAVD 88 DATUM)
- PROVIDED CITY BENCH MARKS**
- R.R. SPIKE IN UTILITY POLE LOCATED ON THE SOUTH SIDE OF E TIENCEN ROAD 1030'± WEST OF THE SOUTH 1/4 CORNER OF SECTION 2. ELEV 779.93 (U.S.G.S. DATUM)
  - RAILROAD SPIKE IN UTILITY POLE NORTH SIDE OF E TIENCEN ROAD AT THE SOUTHEAST CORNER OF ADJACENT SITE 247. ELEVATION 790.05 (U.S.G.S. DATUM)
- CITY BENCH MARKS (NOT VERIFIED BY HURON)



**CAUTION!!!**

THE LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS DRAWING ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING EXACT LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.

**TOPOGRAPHICAL SURVEY**

1" = 20'



**HURON CONSULTANTS**  
ENGINEERS & SCIENTISTS

5811 24th Ave, Suite A  
Fort Gratiot, MI 48060  
TEL: (810) 908-0880  
FAX: (810) 908-0881

www.huronconsultants.com

CLIENT NAME:

CHMP INC  
5108 TERRITORIAL RD  
GRAND BLAND, MI  
48438

T (810) 608-5910

3 WORKING DAYS  
800-482-7171



Know what's below.  
Call before you dig.

PRIOR TO CONSTRUCTION, ALL EXISTING UTILITIES LOCATION AND DEPTH WITHIN THE PROJECT AREA SHALL BE FIELD VERIFIED. CALL MISS DIG SYSTEM 3 WORKING DAYS PRIOR TO CONSTRUCTION.

UTILITY INFORMATION SHOWN ON THIS DRAWING IS APPROXIMATE AND MAY BE ACCORDING TO AVAILABLE RECORDS OR DISCLOSED INFORMATION BY VARIOUS UTILITY COMPANIES, PUBLIC AGENCIES, OR OTHER SOURCES AND THERE MAY NOT NECESSARILY REFLECT ACTUAL FIELD LOCATIONS AND NO GUARANTEE IS GIVEN TO COMPLETENESS OR ACCURACY.

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PROJECT NAME:

**ROCHESTER HILLS  
FIRE STATION 6**

0811 EAST TIENCEN

**TOPOGRAPHICAL  
SURVEY**

PROJECT LOCATION:

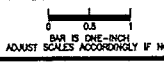
SEC 02, T3N, R11E  
CITY OF ROCHESTER HILLS  
OAKLAND COUNTY

Drawn By: S.GENNA  
Checked By: SS  
Approved By: SS

REVISIONS:

- 10/02/14 ISSUED TO CHMP
- 10/13/14 FINAL
- 12/09/14 CITY REV 1

SCALE VERIFICATION:



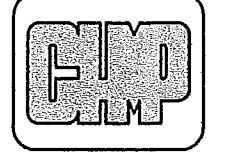
HC PROJECT NO:

14-11242

HC DRAWING NO:

14-11242TPFS5

1 OF 1



ARCHITECTURE  
 ENGINEERING  
 LANDSCAPE ARCHITECTURE  
 SURVEYING

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SITE AND BUILDING IMPROVEMENTS FOR:  
**CITY OF ROCHESTER HILLS  
 FIRE STATION #5**  
 251 E. TIENKEN ROAD, ROCHESTER HILLS, MICHIGAN 48309

PROJECT NO. 14003900  
 DATE DRAWN 11-11-14  
 DATE REVISED 12-10-14  
 DRAWN BY KEC  
 CHECKED BY GHM  
 SCALE AS NOTED  
 ISSUED FOR DATE 11-11-14  
 SITE PLAN REVIEW 11-11-14  
 SITE PLAN APPROVAL 12-11-14

SHEET NO. C-1  
 CITY FILE #14-019

**GENERAL NOTES**

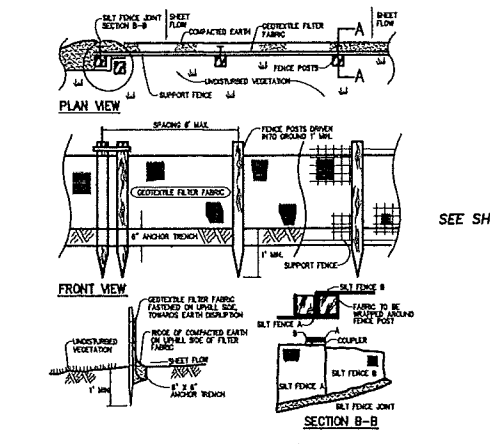
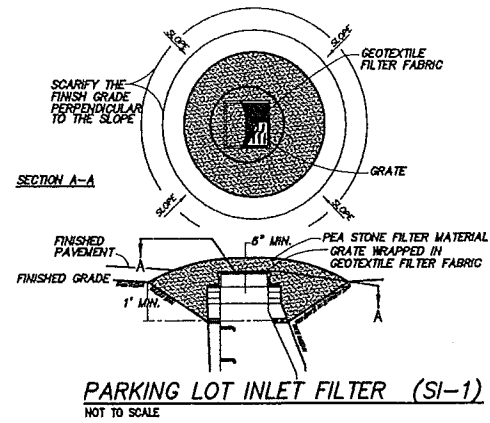
- THREE (3) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL TELEPHONE MISS DIG (800-482-7171) FOR THE LOCATION OF UNDERGROUND GAS AND CABLE FACILITIES AND SHALL NOTIFY REPRESENTATIVES OF OTHER UTILITIES LOCATED IN THE VICINITY OF THE WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND/OR OBTAIN ANY INFORMATION NECESSARY REGARDING THE PRESENCE OF UNDERGROUND UTILITIES THAT AFFECT THIS JOB.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE CITY OF ROCHESTER HILLS, OAKLAND COUNTY DRAIN COMMISSION, OAKLAND COUNTY ROAD COMMISSION, MICHIGAN DEPARTMENT OF TRANSPORTATION, AND THE MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) WHERE APPLICABLE. REFER TO CITY OF ROCHESTER HILLS FOR ALL NOTES AND DETAILS RELATED TO PAVING, SANITARY SEWER, STORM SEWER AND WATERMAIN CONSTRUCTION.
- CHMP, INC SHALL NOT BE RESPONSIBLE FOR MEANS, METHODS, PROCEDURES, TECHNIQUES, OR SEQUENCES OF CONSTRUCTION, NOR THE SAFETY ON THE JOB SITE, NOR SHALL CHMP, INC. BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THESE DOCUMENTS.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER, ENGINEER, CITY OF ROCHESTER HILLS, OAKLAND COUNTY, AND THE STATE OF MICHIGAN FROM ALL LIABILITIES FOR INJURY TO PERSONS, OR DAMAGE TO OR LOSS OF PROPERTY, OR ANY OTHER LOSS, COST OR EXPENSE, AS A RESULT OF THE ACTIONS OF THE CONTRACTOR, HIS EMPLOYEES, AGENTS, OR SUBCONTRACTORS.
- THE LOCATION AND ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE DRAWINGS ARE ONLY APPROXIMATE. NO GUARANTEE IS EITHER EXPRESSED OR IMPLIED AS TO THE COMPLETENESS OR ACCURACY THEREOF. THE CONTRACTOR SHALL BE EXCLUSIVELY RESPONSIBLE FOR DETERMINING THE EXACT LOCATION AND ELEVATION OF EXISTING UTILITIES AND PROPOSED UTILITY CROSSINGS IN THE FIELD PRIOR TO CONSTRUCTION. FURTHER, THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- PRIOR TO CONSTRUCTION, ALL EXISTING UTILITIES AT PROPOSED CONNECTIONS AND CROSSINGS SHALL BE FIELD EXCAVATED TO VERIFY LOCATION AND ELEVATION. FIELD INFORMATION SHALL BE SUPPLIED TO THE ENGINEER SO THAT THE ENGINEER MAY CONFIRM, ADJUST OR REVISE DESIGN ELEVATIONS OF PROPOSED UTILITIES.
- THE CONTRACTOR SHALL OBTAIN AND PAY (FEES, INSURANCE, ECT.) ALL PERMITS REQUIRED BY FEDERAL, STATE, LOCAL, OR PRIVATE AGENCIES. CONTRACTOR SHALL PAY ALL CHARGES FOR INSPECTION AND TESTING.
- THE CONTRACTOR SHALL ARRANGE FOR A PRE-CONSTRUCTION MEETING TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION TO BE ATTENDED BY REPRESENTATIVES OF ALL PERMIT ISSUING AGENCIES TO COORDINATE THE WORK, INSPECTIONS AND TIMING OF ALL PARTIES.
- THE CONTRACTOR SHALL NOTIFY THE PERMIT ISSUING AGENCIES THREE (3) DAYS PRIOR TO CONSTRUCTION FOR REQUIRED INSPECTIONS. THE CONTRACTOR SHALL PAY FOR ALL NECESSARY PERMITS, BONDS, AND INSURANCE.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, COUNTY, STATE, AND LOCAL REGULATIONS FOR ALL WORK THAT TAKES PLACE ON THE SITE.

**SITE NOTES**

- SEE ARCHITECTURAL DRAWINGS FOR COMPLETE BUILDING DIMENSIONS.
- REFER TO CITY OF ROCHESTER HILLS STANDARD DETAILS FOR ALL NOTES AND DETAILS RELATED TO PAVING, SANITARY SEWER, STORM SEWER AND WATERMAIN CONSTRUCTION.
- WORKMANSHIP AND MATERIALS FOR ALL BITUMINOUS PAVING SHALL BE IN ACCORDANCE WITH MDOT STANDARD SPECIFICATIONS, 2012 EDITION.
- CONCRETE PAVING SHALL BE REINFORCED IN ACCORDANCE WITH DETAIL 2 ON SHEET C-1.
- CONTRACTOR SHALL SEAL COAT AND RESTRIPE ENTIRE ASPHALT AREA INCLUDING ALL PARKING AND DRIVES UPON COMPLETION OF BUILDING RENOVATIONS. STRIPE PARKING SPACES AS INDICATED IN ACCORDANCE WITH MDOT SPECIFICATION, SECTION 811. LINE PAINT FOR PARKING SPACE STRIPING SHALL BE YELLOW, 4" WIDE. BARRIER FREE STRIPING, AISLES AND SYMBOLS SHALL BE BLUE.
- CONTRACTOR SHALL REMOVE AND REPLACE EXISTING CONCRETE AND/OR ASPHALT PAVEMENT IN KIND AS REQUIRED TO INSTALL CONDUITS FOR SITE LIGHTING FIXTURES.
- THE CONTRACTOR SHALL VERIFY THE DEPTH AND LOCATION OF THE EXISTING SANITARY SEWER LEAD AND BE RESPONSIBLE FOR PROVIDING ADEQUATE SLOPE TO THE TEMPORARY FACILITY IN STRICT ACCORDANCE WITH CITY OF ROCHESTER HILLS STANDARD DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING UP THE PREMISES, AND UPON COMPLETION OF THE PROJECT, LEAVE THE SITE IN AN ACCEPTABLE CONDITION AS DETERMINED BY THE LOCAL MUNICIPALITY.

**GRADING NOTES**

- SLOPE ALL PAVED SURFACES TO DRAIN TO STORM STRUCTURES. MINIMUM SLOPE ON NEW PAVED AREAS SHALL BE 1.0%, MAXIMUM SHALL BE 3.0%.
- CHECK LOCATION OF ALL UTILITY LINES PRIOR TO DIGGING. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO UTILITIES AND/OR THE OWNER'S PROPERTY AND SHALL REPAIR, REPLACE, OR RESTORE SAME AT THE CONTRACTOR'S EXPENSE. CALL MISS DIG (3) WORKING DAYS BEFORE DIGGING AT 1-800-482-7171.
- SLOPE ALL SITE WORK UNIFORMLY BETWEEN NEW GRADES OR BETWEEN NEW GRADES AND EXISTING GRADES. THIS INCLUDES SLOPING ALL SITE WORK BETWEEN NEW GRADES AND RIM ELEVATION GRADES AT CATCH BASINS. TRANSITIONS BETWEEN CHANGE IN GRADES SHALL BE CONSTRUCTED WITH A MINIMUM 25 FOOT VERTICAL CURVE. PLAN GRADES INDICATE POINT OF INTERSECTION ELEVATIONS. AVOID ABRUPT GRADE CHANGES AT CATCH BASINS AND HIGH POINTS.
- AREA OF BUILDINGS, WALKS, AND PAVING SHALL BE STRIPPED OF TOPSOIL. TOPSOIL SHALL BE STORED ON THIS CONSTRUCTION SITE FOR RE-USE. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THIS CONSTRUCTION SITE.
- ALL FILL NECESSARY TO PROVIDE SUBGRADES FOR INTERIOR CONCRETE FLOOR SLABS AND CONCRETE APRONS SHALL BE MICHIGAN DEPARTMENT OF TRANSPORTATION, CLASS II.
- CONTRACTOR SHALL PROVIDE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE CITY OF ROCHESTER HILLS AND/OR OAKLAND COUNTY REQUIREMENTS. THE CONTRACTOR SHALL PROTECT ALL EXISTING AND PROPOSED STORM SEWER FACILITIES ON AND ADJACENT TO THE SITE DURING EXCAVATION AND CONSTRUCTION. ALL SEDIMENT SHALL BE CONTAINED ON-SITE. ANY SILT IN COUNTY DRAINS, AS A RESULT OF THIS PROJECT SHALL BE REMOVED BY THE CONTRACTOR.

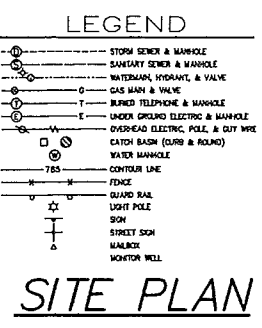
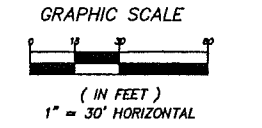
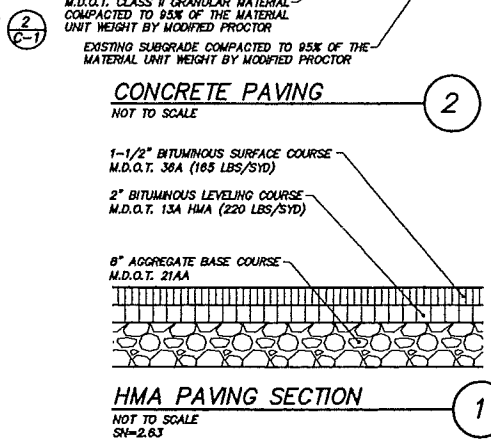
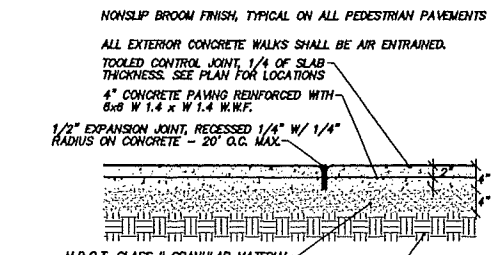
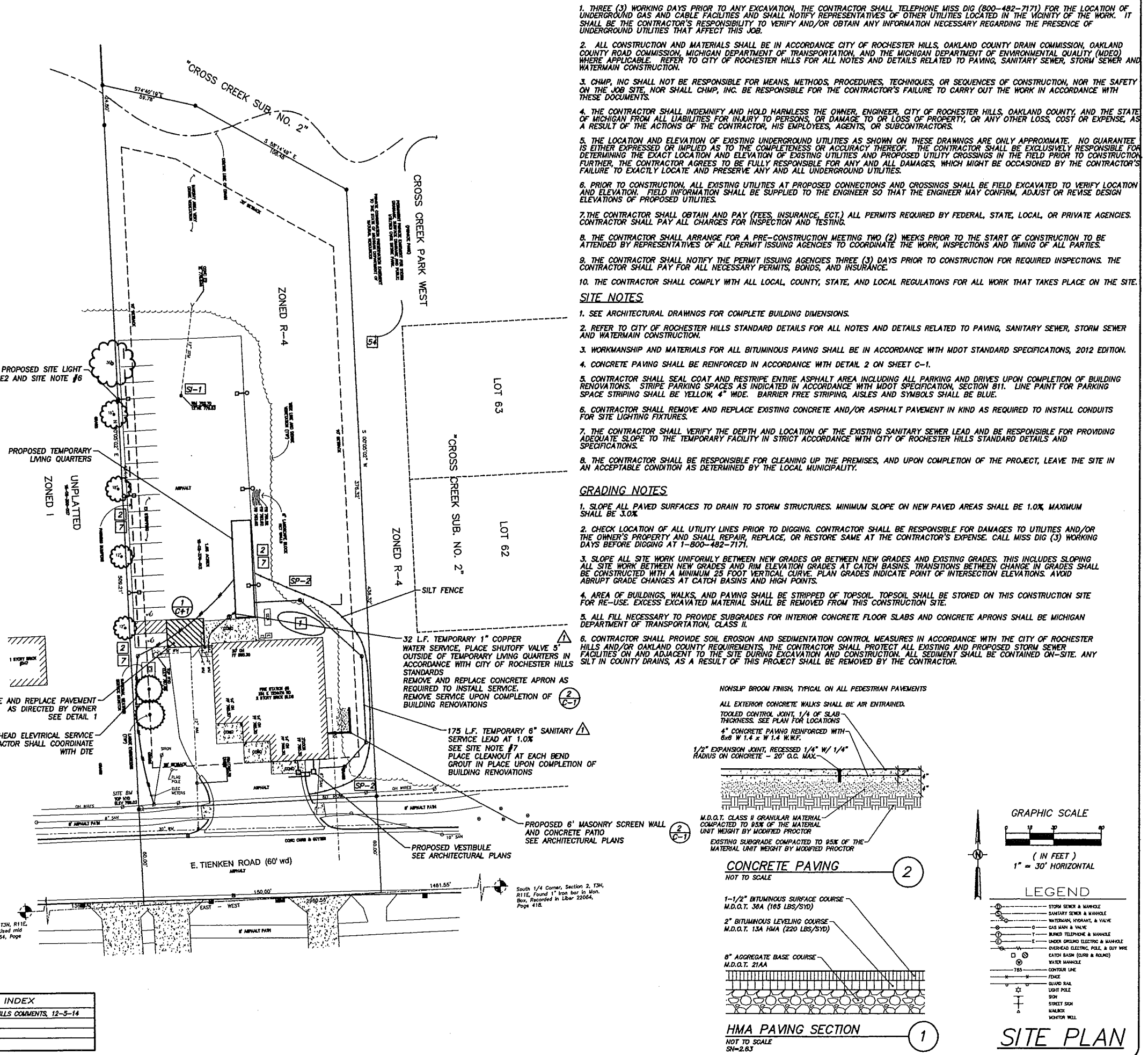


**SOIL EROSION AND SEDIMENTATION CONTROL**

MICHIGAN UNIFIED KEYING SYSTEM

\* INDICATES APPLICABILITY OF A SPECIFIC CONTROL MEASURE TO ONE OR MORE OF THE SEVEN PROBLEM AREAS

KEY	DETAIL	CHARACTERISTICS	A	B	C	D	E	F	G
1	STORM SEWER	STORM SEWER	*					*	*
2	STORM SEWER	STORM SEWER	*					*	*
7	STORM SEWER	STORM SEWER	*					*	*



**REVISION INDEX**

1.	PER CITY OF ROCHESTER HILLS COMMENTS, 12-5-14
----	---

**811**  
 Know what's below.  
 Call before you dig.  
 LOCATION OF ALL UNDERGROUND UTILITIES AS SHOWN ARE APPROXIMATE. ALL LOCATIONS MUST BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.



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**NEW WORK LEGEND**

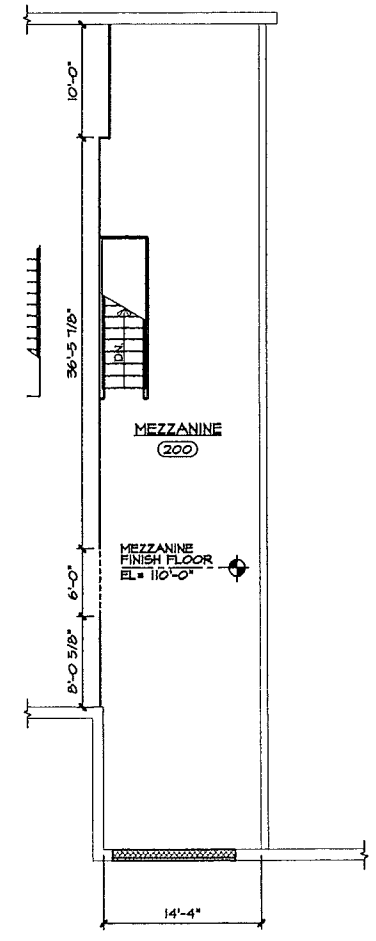
- EXISTING CONSTRUCTION
- NEW CONSTRUCTION
- PARTITION TYPE - REFER TO WALL TYPES LEGEND - SHEET A-2

**NEW WORK GENERAL NOTES**

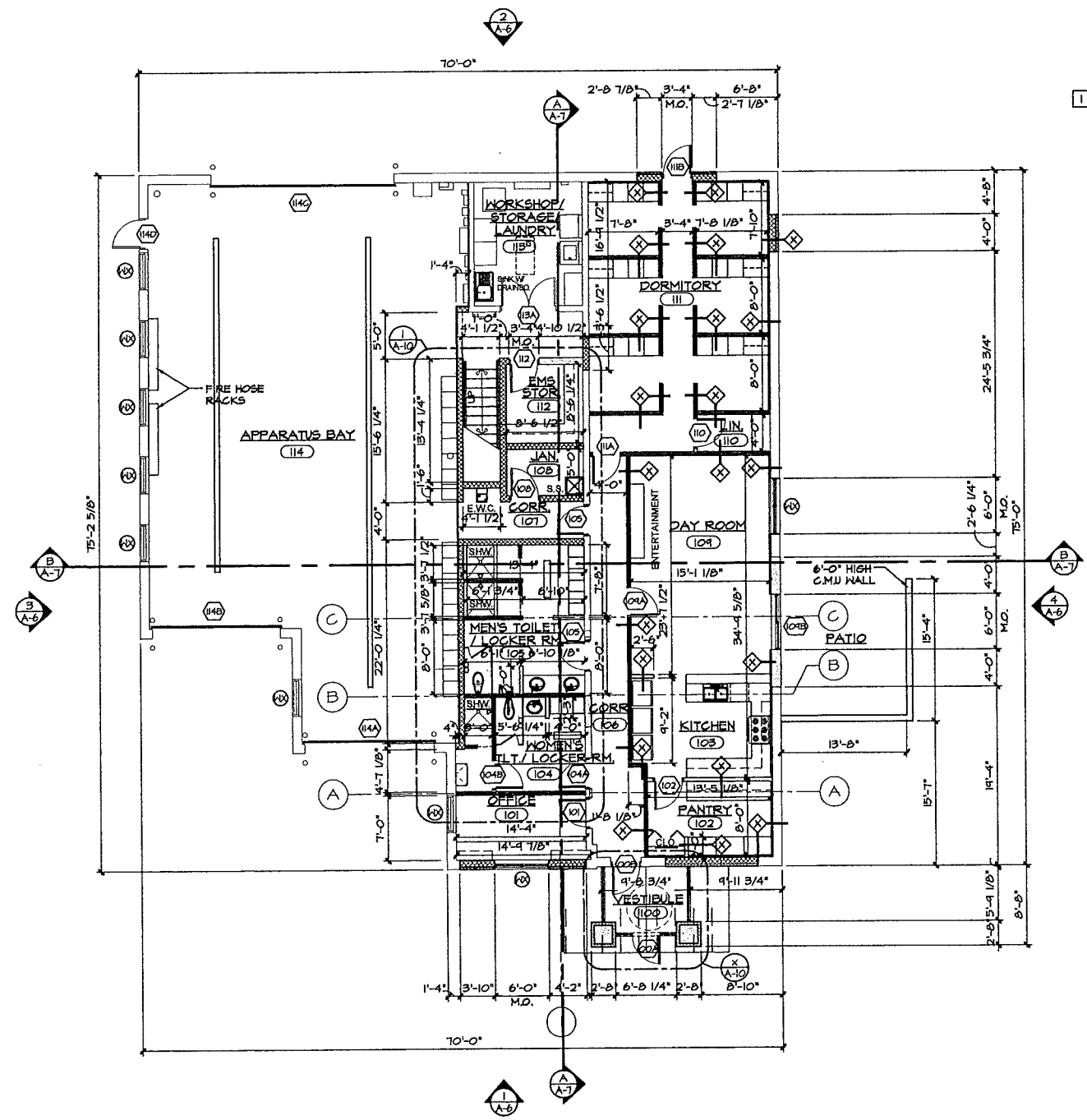
- A. PATCH AND/OR REPAIR ALL EXISTING FLOOR, WALL AND/OR CEILING FINISHES AS REQUIRED TO MATCH EXISTING OR TO ACCEPT NEW FINISHES AS SCHEDULED AT ALL AREAS AFFECTED BY THE DEMOLITION WORK. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
- B. REFER TO DRAWING A-3 FOR ROOM FINISH SCHEDULE

**NEW WORK REFERENCED NOTES:**

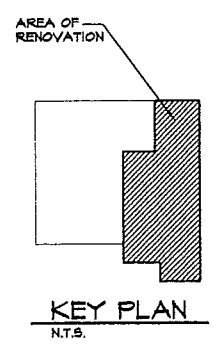
1 X



**FLOOR PLAN - MEZZANINE**  
 SCALE 1/4" = 1'-0"



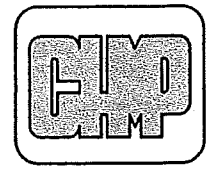
**FLOOR PLAN #5 (STONEY CREEK)**  
 SCALE 1/8" = 1'-0"



**SITE AND BUILDING IMPROVEMENTS FOR:**  
**CITY OF ROCHESTER HILLS**  
**FIRE STATION #5**  
 251 E. TIENKEN ROAD, ROCHESTER HILLS, MICHIGAN 48309

PROJECT NO.	14005100
DATE	SEPT 8, 2014
AS BUILT DATE	
DRAWN BY	JTS
CHECKED BY	SHM
SCALE	AS NOTED
ISSUED FOR:	DATE
SITE PLAN REVIEW	NOV 17, 2014
SITE PLAN APPROVAL	DEC 11, 2014

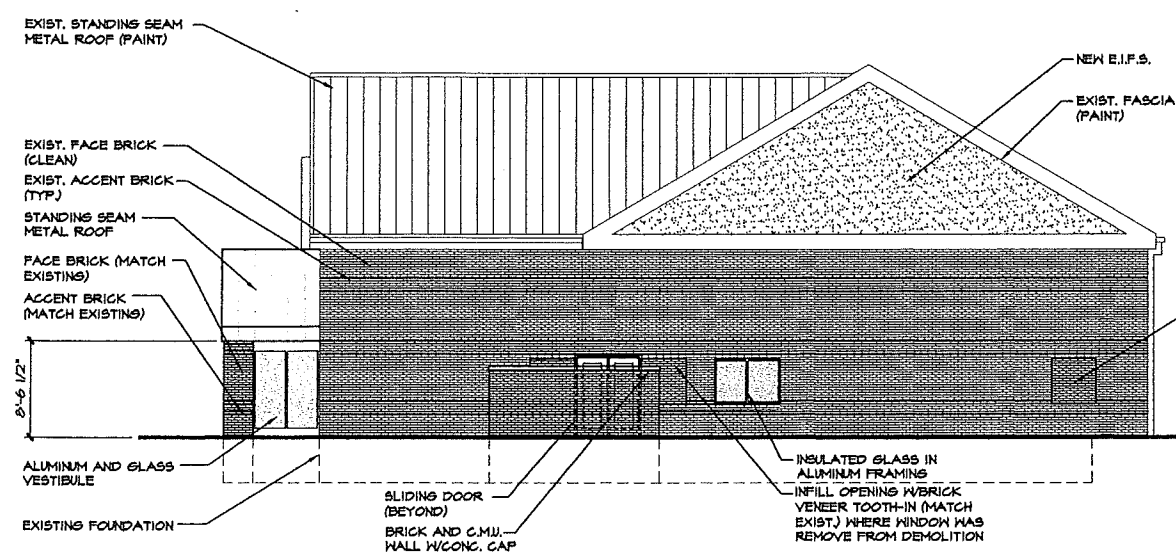
SHEET NO.  
**A-1**  
 OF 1  
 CITY FILE - #14-019



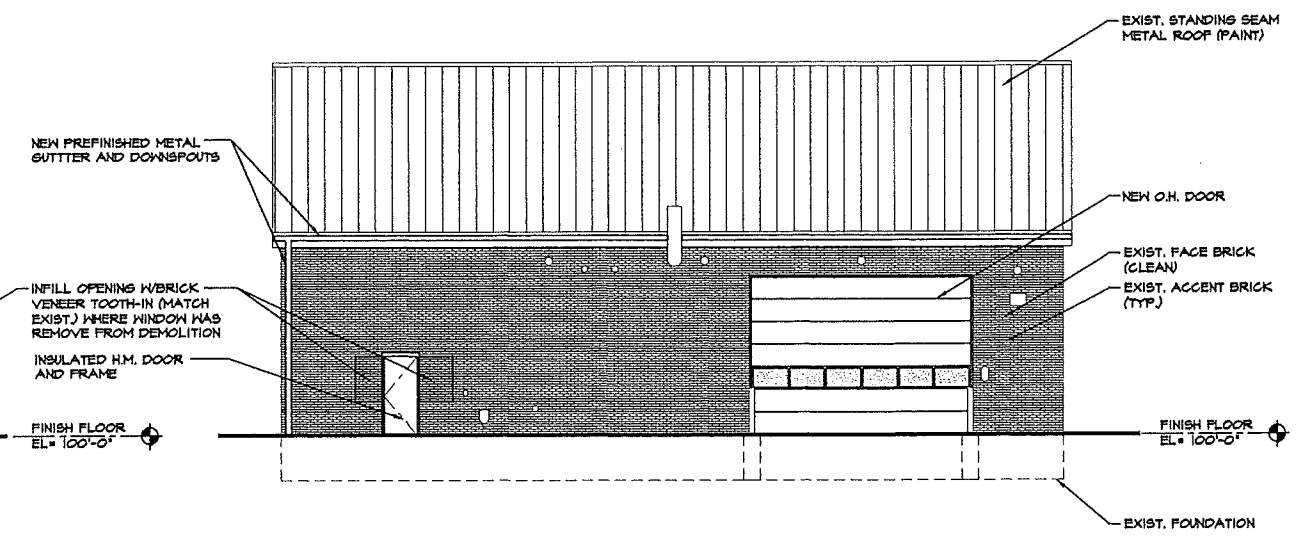
ARCHITECTURE  
 ENGINEERING  
 LANDSCAPE ARCHITECTURE  
 SURVEYING

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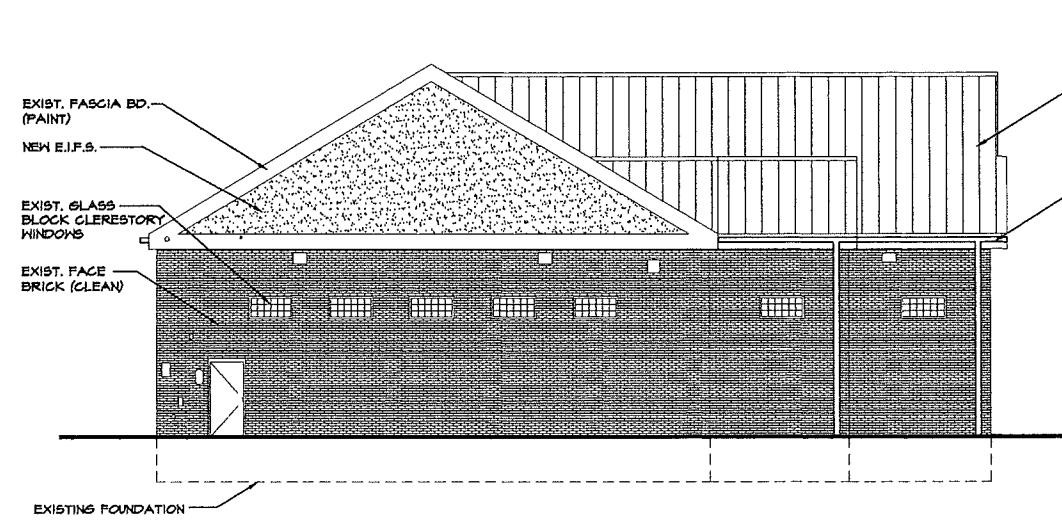
SITE AND BUILDING IMPROVEMENTS FOR:  
**CITY OF ROCHESTER HILLS**  
**FIRE STATION #5**  
 251 E. TIENKEN ROAD, ROCHESTER HILLS, MICHIGAN 48309



4 EAST ELEVATION  
 SCALE: 1/8" = 1'-0"



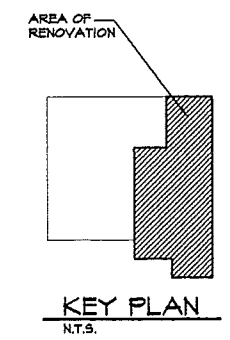
2 NORTH ELEVATION  
 SCALE: 1/8" = 1'-0"



3 WEST ELEVATION  
 SCALE: 1/8" = 1'-0"



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



PROJECT NO.	14005400
DATE	SEPT 8, 2014
AS BUILT DATE	
DRAWN BY	JTS
CHECKED BY	SNM
SCALE	AS NOTED
ISSUED FOR	DATE
SITE PLAN APPROVAL	NOV 17, 2014
DESIGN DEVELOPMENT	DEC 11, 2014



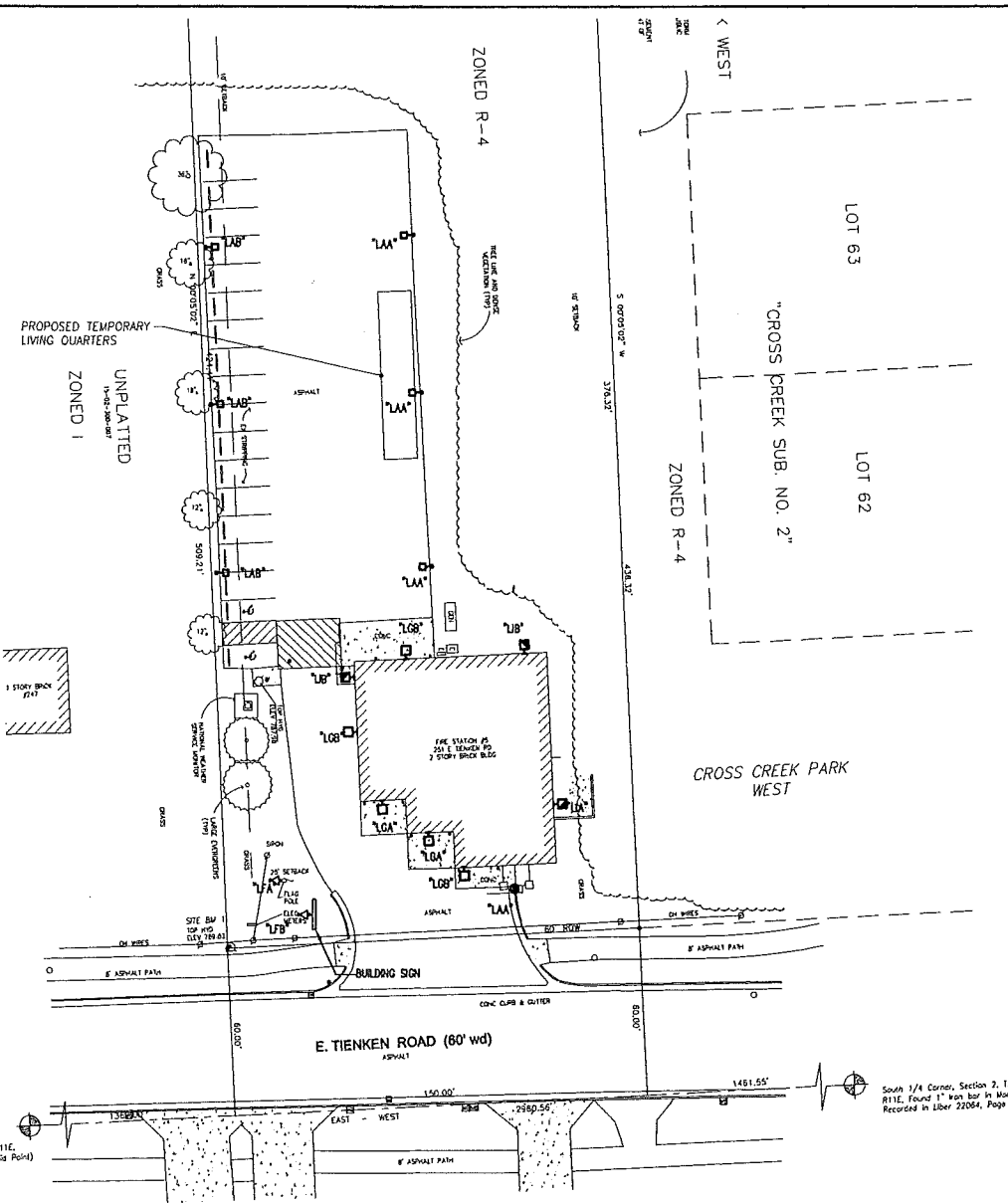
ARCHITECTURE  
ENGINEERING  
LANDSCAPE ARCHITECTURE  
SURVEYING

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SITE AND BUILDING IMPROVEMENTS FOR:  
**CITY OF ROCHESTER HILLS**  
**FIRE STATION #5**  
251 E. TIENKEN ROAD, ROCHESTER HILLS, MICHIGAN 48309

PROJECT NO. 14029400  
DATE SEPT 8, 2014  
AS BUILT DATE  
DRAWN BY ODA  
CHECKED BY DL  
SCALE AS NOTED  
ISSUED FOR DATE  
SITE PLAN APPROVAL NOV 17, 2014  
DESIGN DEVELOPMENT DEC 11, 2014

SHEET NO. E-2  
OF 10

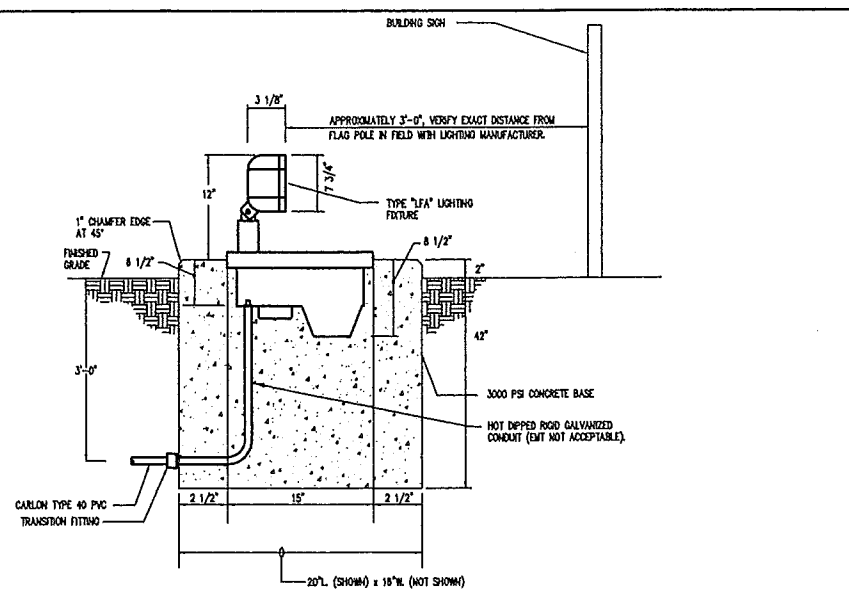


**ELECTRICAL SITE PLAN**  
SCALE: 1" = 30'-0"  
0 15 30 60 120

**KEY NOTES**

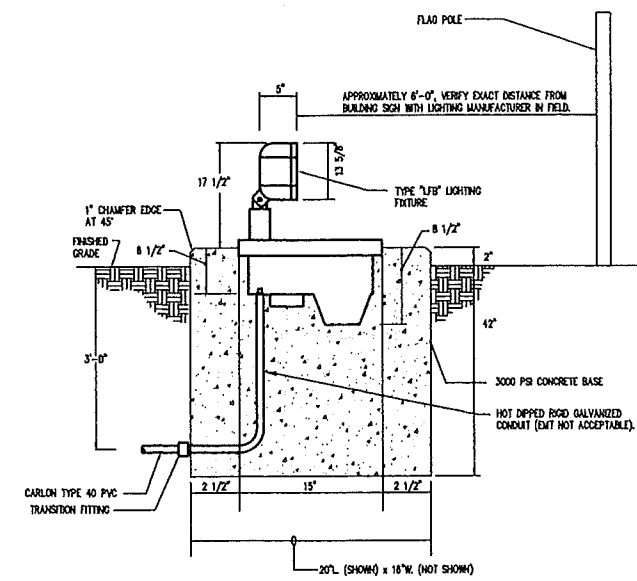
- 1 EXISTING DTE CO. (DETROIT EDISON COMPANY) POWER POLE, TO REMAIN.
- 2 INDICATES RELOCATED POSITION OF EXISTING TORNADO ALARM SIREN TOWER, SIREN CONTROL PANEL, TRANSFORMER, DISCONNECT SWITCH AND UNISTRUT. WIRE TO NEW LRP-7", CIRCUITS #21 & 23 IN ELECTRICAL EQUIPMENT ROOM #02. REFER TO CIVIL DRAWING SHEET #C-1 FOR EXACT LOCATION.
- 3 NEW DTE CO. POWER POLE, PROVIDED AND INSTALLED BY DTE CO. VERIFY EXACT LOCATION IN FIELD WITH DTE CO.
- 4 ALL UTILITY COMPANY COSTS SHALL BE PAID FOR BY THE OWNER.
- 5 (2) NEW UNDERGROUND PARALLEL 3 1/2" SECONDARY ELECTRICAL SERVICE CONDUITS WITH (4) 500 MCM IN EACH, BY CONTRACTOR.
- 6 8" W. X 8" L. X 3/4" D. CLASS A FIRE RATED MAIN TELEPHONE SERVICE PLYWOOD BACKBOARD BY CONTRACTOR.
- 7 NEW 4" DIAMETER UNDERGROUND CONDUIT STUBBED OUT TO POWER POLE AND CAPPED FOR ST. CLAIR COUNTY FIBER OPTIC SERVICE ENTRANCE CABLES, WHICH SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. VERIFY EXACT CABLE MODEL NUMBER, ROUTING, TERMINATION POINT, POLE AND LOCATION WITH ST. CLAIR COUNTY IN FIELD.
- 8 NEW 4" DIAMETER UNDERGROUND CONDUIT STUBBED OUT TO POWER POLE AND CAPPED BY CONTRACTOR FOR COMCAST TELEVISION CO. (COMCAST CTV CO.) SERVICE ENTRANCE CABLES, WHICH SHALL BE PROVIDED AND INSTALLED BY DTE CO. VERIFY EXACT ROUTING, TERMINATION POINT, POLE AND LOCATION WITH COMCAST CTV CO. IN FIELD.
- 9 EXISTING DTE CO. OVERHEAD PRIMARY ELECTRICAL SERVICE WIRING TO REMAIN.
- 10 NEW DTE CO. OVERHEAD PRIMARY ELECTRICAL SERVICE WIRING, PROVIDED AND INSTALLED BY DTE CO.
- 11 NEW 120/208V-3Ø-4W ELECTRIC SERVICE METER INCLUDING BASE AND C-7 CABINET, PROVIDED BY DTE CO. AND INSTALLED ON SIDE OF BUILDING BY CONTRACTOR.
- 12 NEW 4" DIAMETER UNDERGROUND CONDUIT STUBBED OUT TO POWER POLE AND CAPPED BY CONTRACTOR FOR COMCAST TELEPHONE CO. SERVICE ENTRANCE CABLES WHICH SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. VERIFY EXACT TERMINATION POINT, POLE, ROUTING, AND LOCATION WITH COMCAST CO. IN FIELD.
- 13 NEW CONCRETE PAD AND FOOTINGS, PROVIDED AND INSTALLED BY CONTRACTOR PER DTE CO. STANDARDS/SPECIFICATIONS.
- 14 (2) NEW 4" DIAMETER UNDERGROUND CONDUITS STUBBED OUT TO POWER POLE AND CAPPED BY CONTRACTOR FOR DTE CO. PRIMARY ELECTRICAL SERVICE ENTRANCE CABLES, WHICH SHALL BE PROVIDED AND INSTALLED BY DTE CO. VERIFY EXACT LOCATION, ROUTING, POLE AND TERMINATION POINT WITH DTE CO. IN FIELD.
- 15 NEW 120/208V-3Ø-4W SECONDARY, PAD MOUNTED TRANSFORMER, PROVIDED AND INSTALLED BY DTE CO. PROVIDE 10'-0" CLEARANCE ON FRONT SIDE AND 4'-0" CLEARANCE ON THE OTHER THREE SIDES.
- 16 NEW UNDERGROUND 1"Ø-2#10 AND 1#10 GROUND.
- 17 NEW UNDERGROUND 1"Ø-2#12 AND 1#12 GROUND - TYP. THIS CIRCUIT.
- 18 FUTURE EMERGENCY GENERATOR INCLUDING REMOTE ANNUNCIATOR PANEL, AUTOMATIC TRANSFER SWITCH, CONCRETE PAD AND GROUNDING BY OWNER.
- 19 800 AND VHF RADIO ANTENNAS TO BE INSTALLED BY CONTRACTOR TO RELOCATED SIREN TOWER. ANTENNAS TO BE PROVIDED BY OTHERS.
- 20 (2) 4" UNDERGROUND CONDUITS TO 800 AND VHF RADIO EQUIPMENT IN RADIO/DISPATCH #157 BY CONTRACTOR, WIRING PROVIDED BY OTHERS, INSTALLED BY CONTRACTOR.

**NOT FOR CONSTRUCTION**  
12/10/14



**TYPE "LFA" LIGHTING FIXTURE BASE DETAIL**  
NO SCALE

NOTE:  
A. ALL WORK TO BE DONE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.



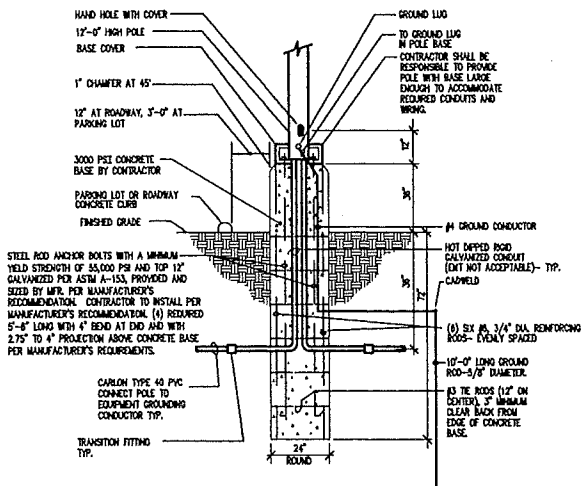
**TYPE "LFB" LIGHTING FIXTURE BASE DETAIL**  
NO SCALE

NOTE:  
A. ALL WORK TO BE DONE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.



**4 WORKING DAYS BEFORE YOU DIG**  
CALL MISS DIG  
1-800-482-7171

NOTE:  
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PRIOR TO CONSTRUCTION, ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) SHALL BE VERIFIED IN THE FIELD. CALL M-H-S-B-D-I-G  
ANY INFORMATION OR DATA ON THIS DRAWING IS NOT INTENDED TO BE RELIABLE FOR REUSE BY ANY PERSON, FIRM OR CORPORATION OR ANY OTHERS ON EXTENSION OF THIS PROJECT OR FOR ANY OTHER PROJECT, ANY REUSE WITHOUT WRITTEN VERIFICATION AND ADAPTATION BY THE SURVEYOR OR ENGINEER FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY OF LEGAL EXPOSURE TO THE SURVEYOR OR ENGINEER.



**TYPICAL TYPE "LAA" AND "LAB" LIGHTING FIXTURE POLE BASE DETAIL**  
NO SCALE

NOTE: ALL WORK TO BE DONE BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.

These documents are two dimensional, traditional plan and specification documents that are not intended to be used by the contractor as shop drawings. Final dimensions, equipment access, routing, miscellaneous fittings, final installation and coordination is the contractor's responsibility.

**Diclemente Segel Design Inc.**  
1075 E. Bristol Road, Burton, Michigan 48329  
810.238.1024 Fax: 810.238.7116  
Engineering and Architecture

Project No. 14-6921  
ACAD# 14-6921.05 E2