



NOWAK & FRAUS **ENGINEERS**

CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM



515 S. Rochester Rd.

CLIENT

838 W. Long Lake Rd Suite 110 Bloomfield Hills, MI 48302

ZONED: B-1 (GENERAL BUSINESS)

SITE DATA

<u>SETBACKS</u> FRONT (SOUTH):

FRONT (WEST):

FRONT (NORTH):

SIDE (EAST):

PARKING REQUIRED:
OFFICE: 1 SPACE PER 250 S.F. FLOOR AREA 7,425 S.F. / 250 S.F. = 30 SPACES

EXISTING SITE AREA: 53,799 S.F. OR 1.24 ACRES

PROPOSED SITE AREA: 59,210 S.F. OR 1.36 ACRES

PROVIDED 83.9' 43.5' 129.3' 36.3'

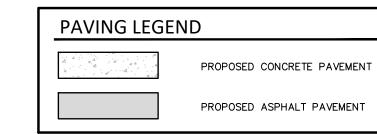
PARKING PROVIDED: 37 SPACES INCLUDING 3 BARRIER-FREE SPACES (3 VAN ACCESSIBLE) EXISTING PERVIOUS SURFACE: 22,296 S.F. OR 41.4% PROPOSED PERVIOUS SURFACE: 19,120 S.F. OR 32.2%

DUMPSTER NOTE EXISTING DUMPSTER TO BE USED FOR BOTH PROPERTIES.

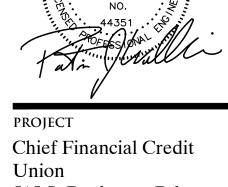
COVID-19 PANDEMIC CONDITION

DUE TO THE UNPRECEDENTED COVID-19 PANDEMIC CONDITION AND RESTRICTIONS THE STANDARD DATA WHICH IS OBTAINED FROM MISS DIG / CALL 811 HAS BEEN RESTRICTED TO CRITICAL INFRASTRUCTURE ONLY. NFE WILL MAKE EVERY EFFORT TO OBTAIN CURRENT REFERENCE DATA FROM THE GOVERNING AGENCIES; HOWEVER, THIS DATA MAY BE PARTIAL OR INCOMPLETE. NFE WILL ISSUE THIS SURVEY WITH THE BEST AVAILABLE INFORMATION FROM OUR FIELD SURVEY AND OTHER AVAILABLE INFORMATION FROM OUR FIELD SURVEY AND OTHER AVAILABLE REFERENCE DATA. NFE WILL NOT BE RESPONSIBLE FOR INCOMPLETE OR PARTIAL DATA PROVIDED BY THIRD PARTY FACILITY OWNERS. NFE IS NOT RESPONSIBLE FOR BURIED UTILITIES FOR WHICH PLANS WERE NOT FURNISHED OR CANNOT BE OBSERVED IN THE FIELD.

ALL CONSTRUCTION DOCUMENTS WILL BE UPDATED WHEN THE UTILITY INFORMATION IS PROVIDED BY THE FACILITY OWNER UP UNTIL THE TIME OF SUBMITTAL. ONCE THE PLANS HAVE BEEN SUBMITTED AND APPROVED IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN A MISS DIG TICKET PRIOR TO COMMENCING ANY CONSTRUCTION REQUIRING EXCAVATION. CONTRACTOR SHALL IMMEDIATELY NOTIFY NEE OF ANY UTILITIES FLAGGED BY MISS DIG THAT WERE NOT SHOWN ON THE PLANS OR UTILITIES UNCOVERED DURING THEIR WORK.



LEGEND	
MANHOLE S	EXISTING SANITARY SEWER
HYDRANT GATE VALVE	SAN. CLEAN OUT
	EXISTING WATERMAIN
MANHOLE CATCH BASIN	EXISTING STORM SEWER
$\qquad \qquad $	EX. R. Y. CATCH BASIN
UTILITY POLE GUY POLE	EXISTING BURIED CABLES
GUY WIRE	OVERHEAD LINES
禁	LIGHT POLE
d d	SIGN
C.O. MANHOLE	EXISTING GAS MAIN
©	PR. SANITARY SEWER
- GATE VALVE	PR. WATER MAIN
INLET C.B. MANHOLE	PR. STORM SEWER
	PR. R. Y. CATCH BASIN
禁	PROPOSED LIGHT POLE



CBI Design Professionals

Contact: Amanda Fox Ph: (248) 645-2605

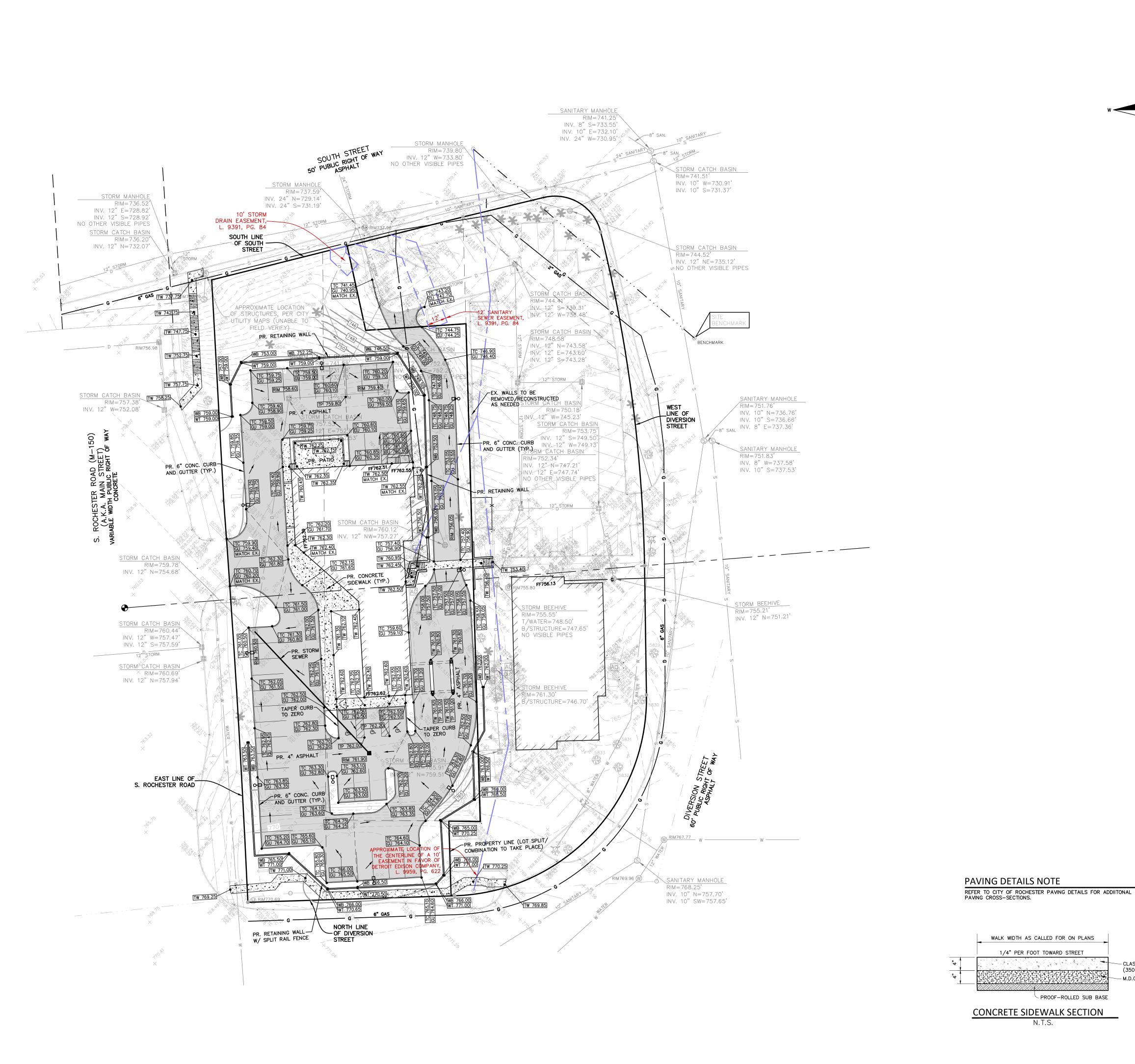
PROJECT LOCATION Part of the Northwest 1/4 of Section 14 T. 3 North, R. 11 East City of Rochester and City of Rochester Hills, Oakland County, Michigan

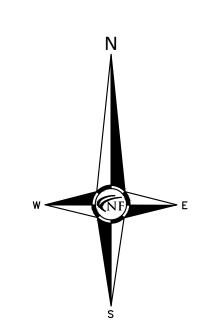
SHEET

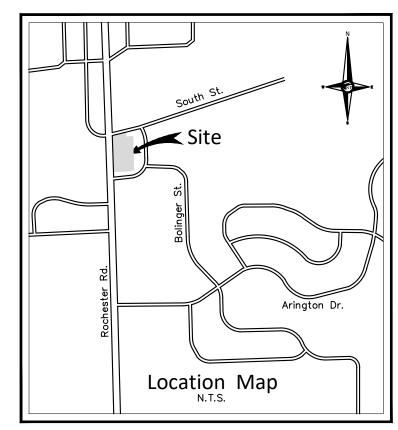
Dimensional Site Plan



DATE IS	SUED/REVI	SED	
00-00-00 REVISED	PER		
			_
-			_
DRAWN BY:			
A. Eizembe	er		
DESIGNED BY			
A. Eizembo	er		
APPROVED BY			
P. Williams			
DATE:	<u>, </u>		_
August 31,	2020		
August 31,	2020		_
SCALE: $1'' =$: 30'		
30 15	0 15	30	4
NFE JOB NO.		IEET NC).
L880	, i	SP-2	









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GENERAL PAVING NOTES

PAVEMENT SHALL BE OF THE TYPE, THICKNESS AND CROSS SECTION AS INDICATED ON THE PLANS AND AS FOLLOWS: PORTLAND CEMENT TYPE IA (AIR-ENTRAINED) WITH A MINIMUM CEMENT CONTENT OF SIX SACKS PER CUBIC YARD, MINIMUM 28 DAY COMPRESSIVE

STRENGTH OF 3,500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES. BASE COURSE — MDOT BITUMINOUS MIXTURE NO. 1100L, 20AA; SURFACE COURSE — MDOT BITUMINOUS MIXTURE NO. 1100T, 20AA; ASPHALT CEMENT PENETRATION GRADE 85—100, BOND COAT — MDOT SS—1H EMULSION AT 0.10 GALLON PER SQUARE YARD; MAXIMUM 2 INCH LIFT.

PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT. EXISTING SUB—BASE SHALL BE PROOF—ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY. ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION. ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION. ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED. ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS INDICATED ON THE PLANS. CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL INSPECTION. EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS. EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII. SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS

ALL PAVEMENT AREAS SHALL BE PROOF—ROLLED UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING

FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES THICK TO 98% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF PROPOSED PAVEMENT.

COVID-19 PANDEMIC CONDITION

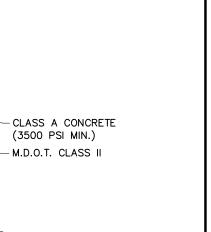
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PROPOSED CONCRETE PAVEMENT

PROPOSED ASPHALT PAVEMENT LEGEND

PAVING LEGEND

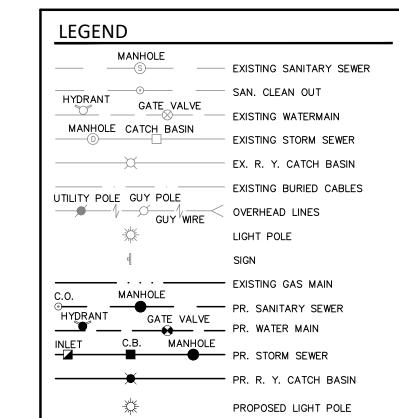


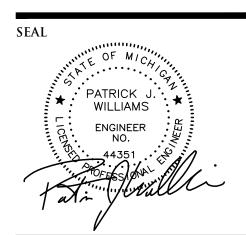
CONCRETE SIDEWALK SECTION N.T.S.

PROOF-ROLLED SUB BASE

WALK WIDTH AS CALLED FOR ON PLANS

1/4" PFR FOOT TOWARD STRFFT





PROJECT

Chief Financial Credit

515 S. Rochester Rd.

CLIENT

CBI Design Professionals 838 W. Long Lake Rd Bloomfield Hills, MI 48302

Contact: Amanda Fox

Ph: (248) 645-2605

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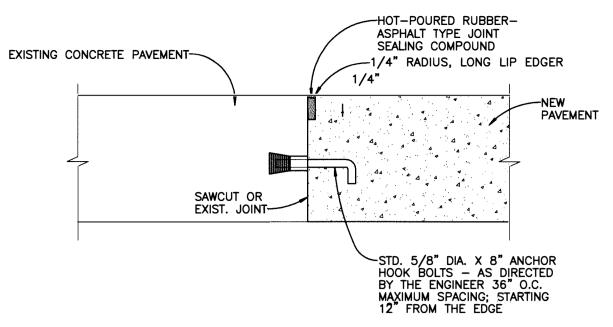
SHEET

Engineering Site Plan

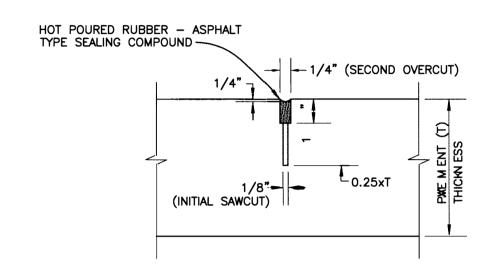


DATE ISSUED/REVISED

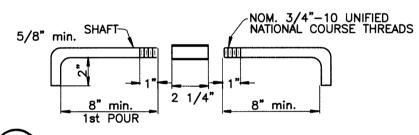
00-00-00 REVISED PER DRAWN BY: A. Eizember **DESIGNED BY:** A. Eizember APPROVED BY: P. Williams DATE: August 31, 2020 SCALE: 1'' = 30'SHEET NO. NFE JOB NO. L880



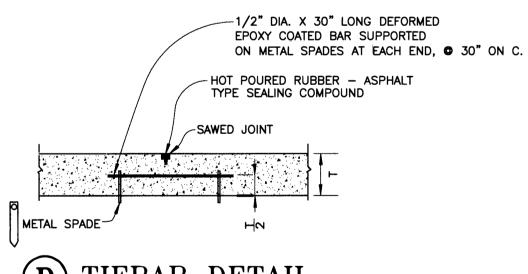
(A) CONSTRUCTION JOINTS



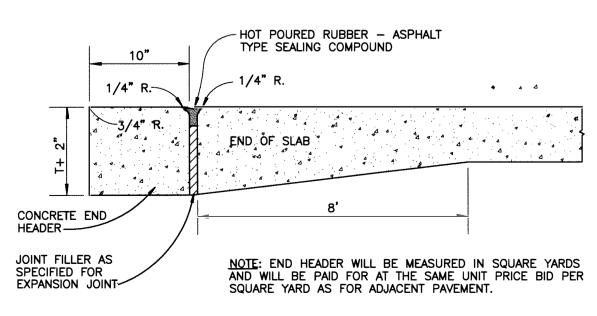
B TRANSVERSE/LONGITUDINAL PLANE OF WEAKNESS JOINT



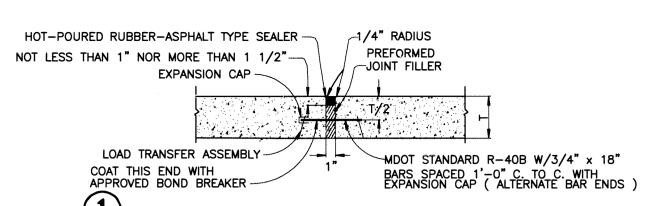
(C) HOOK BOLT DETAIL



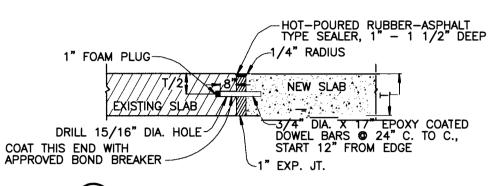
D TIEBAR DETAIL



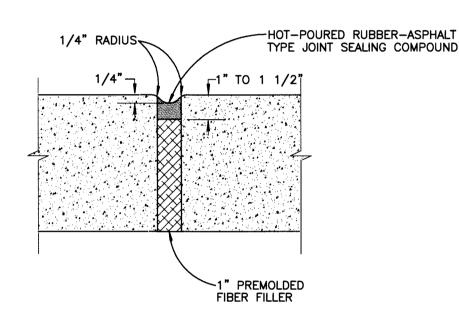
END HEADER



1 LOAD TRANSFER ASSEMBLY WITH PREFORMED EXPANSION JOINT FILLER



2 EXPANSION JOINT WITH 3/4" DOWELS

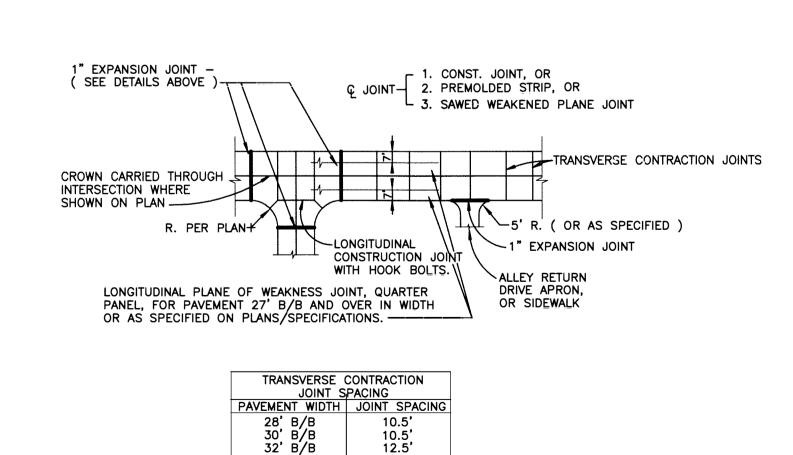


3 EXPANSION JOINT

(4) EXPANSION JOINT SPACING

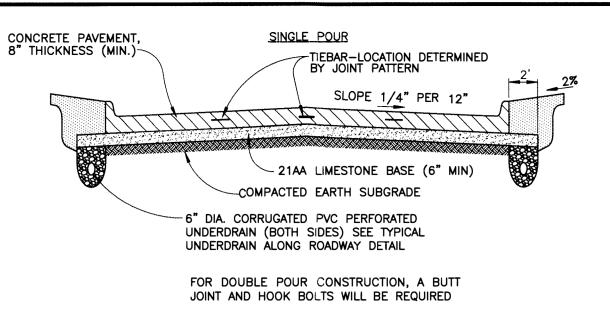
DAYTIME TEMPERATURES 50°F AND ABOVE:
AT ALL INTERSECTIONS; MAXIMUM
SPACING 700 FEET; AS SHOWN ON PLANS.

DAYTIME TEMPERATURES BELOW 50°F:
AT ALL INTERSECTIONS; MAXIMUM
SPACING 450 FEET; AS SHOWN ON PLANS.



NOTE: EVERY 5TH TRANSVERSE JOINT SHALL BE FORMED WITH 1/4" x 2 1/4" PREMOLDED BITUMINOUS JOINT MATERIAL PLACED AT THE TIME CONCRETE IS POURED. INTERMEDIATE TRANSVERSE JOINTS SHALL BE SAWED.

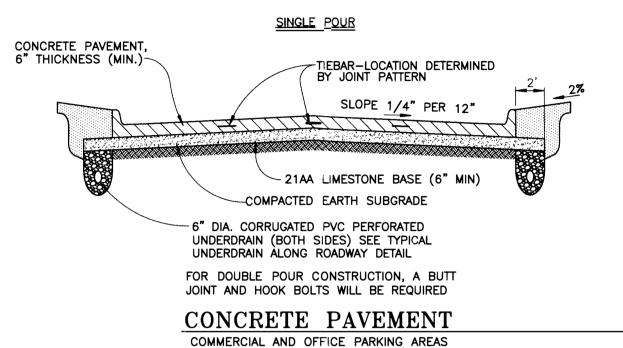
5 JOINTING DETAILS



FOR DOUBLE POUR CONSTRUCTION, A BUTT JOINT AND HOOK BOLTS WILL BE REQUIRED

CONCRETE PAVEMENT

INDUSTRIAL, LIGHT INDUSTRIAL & COMMERCIAL/OFFICE MANEUVERING LANE - TRUCK TRAFFIC



CONC. CURB AND GUTTER

2" M.D.O.T. SPEC.
4C BITUMINOUS LEVELING COURSE

SLOPE PER 12"

4" M.D.O.T. SPEC.
2C BITUMINOUS BASE COURSE

4" M.D.O.T. SPEC.
2C BITUMINOUS BASE COURSE

10 DIA. CORRUGATED PVC PERFORATED UNDERDRAIN (BOTH SIDES) SEE TYPICAL UNDERDRAIN ALONG ROADWAY DETAIL

BITUMINOUS PAVEMENT

HEAVY INDUSTRIAL, LIGHT INDUSTRIAL & COMMERCIAL/OFFICE

CONC. CURB
AND GUTTER

2" M.D.O.T. SPEC.
4C BITUMINOUS
LEVELING COURSE

SLOPE
PER 12"

27%

21AA LIMESTONE BASE (6" MIN)

COMPACTED EARTH SUBGRADE

6" DIA. CORRUGATED PVC PERFORATED
UNDERDRAIN (BOTH SIDES) SEE TYPICAL
UNDERDRAIN ALONG ROADWAY DETAIL

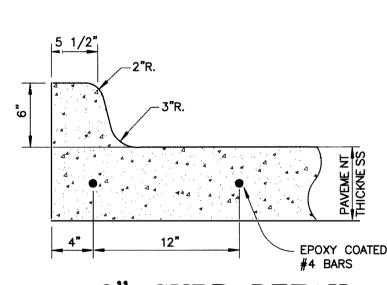
MANEUVERING LANE - TRUCK TRAFFIC

BITUMINOUS PAVEMENT
COMMERCIAL AND OFFICE PARKING AREAS

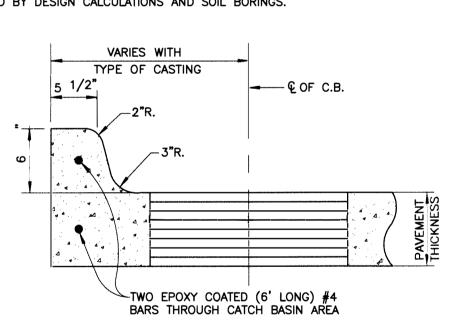
TYPICAL PAVEMENT SECTIONS

PAVEMEN	IT & SUBBASE SECTION REQUIRE	MENTS FOR PARKING AREAS ANI	D DRIVES
PAVEMENT CLASSIFICATION	MINIMUM CONCRETE PAVEMENT THICKNESS - (INCHES)	MINIMUM BITUMINOUS PAVEMENT THICKNESS — (INCHES)	MINIMUM SUBBASE FOR CONCRETE AND BITUMINOUS PAVEMENT THICKNESS — (INCHES)
HEAVY INDUSTRIAL	8	8	6
LIGHT INDUSTRIAL	8	8	6
COMMERCIE TRAFFICE -			
- PARKING AREAS ONLY	8	8	6
Г:	6	6	6
MULTIPLE FAMILY RESIDENTIAL DRIVING LANE	8	**	**

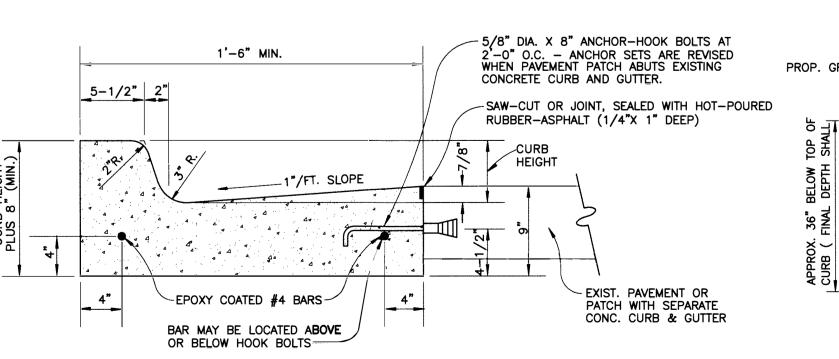
** ALTERNATE PAVEMENT DESIGNS WILL BE CONSIDERED WHEN PROPOSED SECTION PROVIDES THE SAME STRUCTURAL NUMBER, LIFE EXPECTANCY AND IS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER AND IS ACCOMPANIED BY DESIGN CALCULATIONS AND SOIL BORINGS.



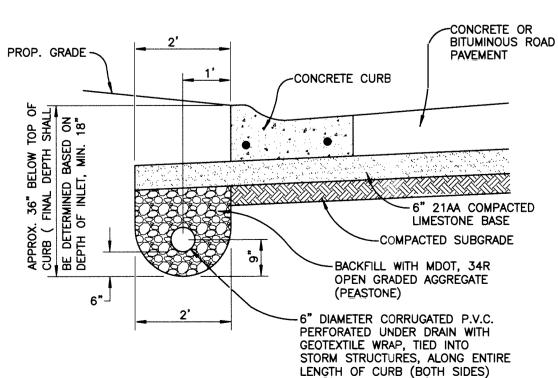
6" CURB DETAIL
INTEGRAL WITH CONCRETE
PAVEMENT (TYPICAL)



6" CURB DETAIL
INTEGRAL WITH CONCRETE
PAVEMENT (AT STRUCTURE



TYPICAL CONCRETE CURB AND GUTTER DETAIL



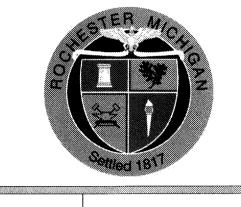
TYPICAL UNDERDRAIN
ALONG ROADWAY

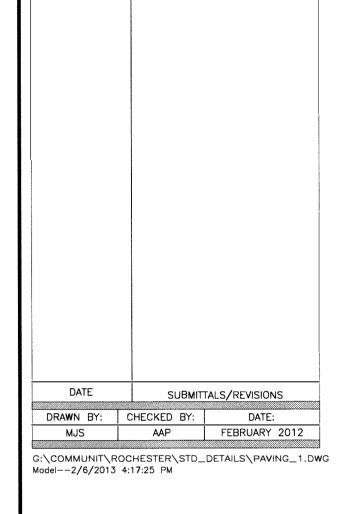
ANDERSON,
ECKSTEIN AND
WESTRICK, INC.

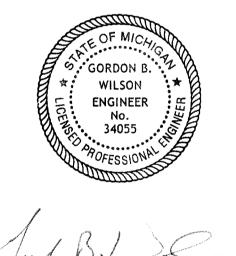
51301 Schoenherr Road
Shelby Township
Michigan 48315

Phone 586 726 1234
Fax 586 726 8780

www.aewinc.com







CORDON B. WILSON P.E. NO. 34055

DEPARTMENT OF PUBLIC WORKS

WILLIAM BOHLEN, DIRECTOR

DATE: __2-7-13

APPROVED BY:

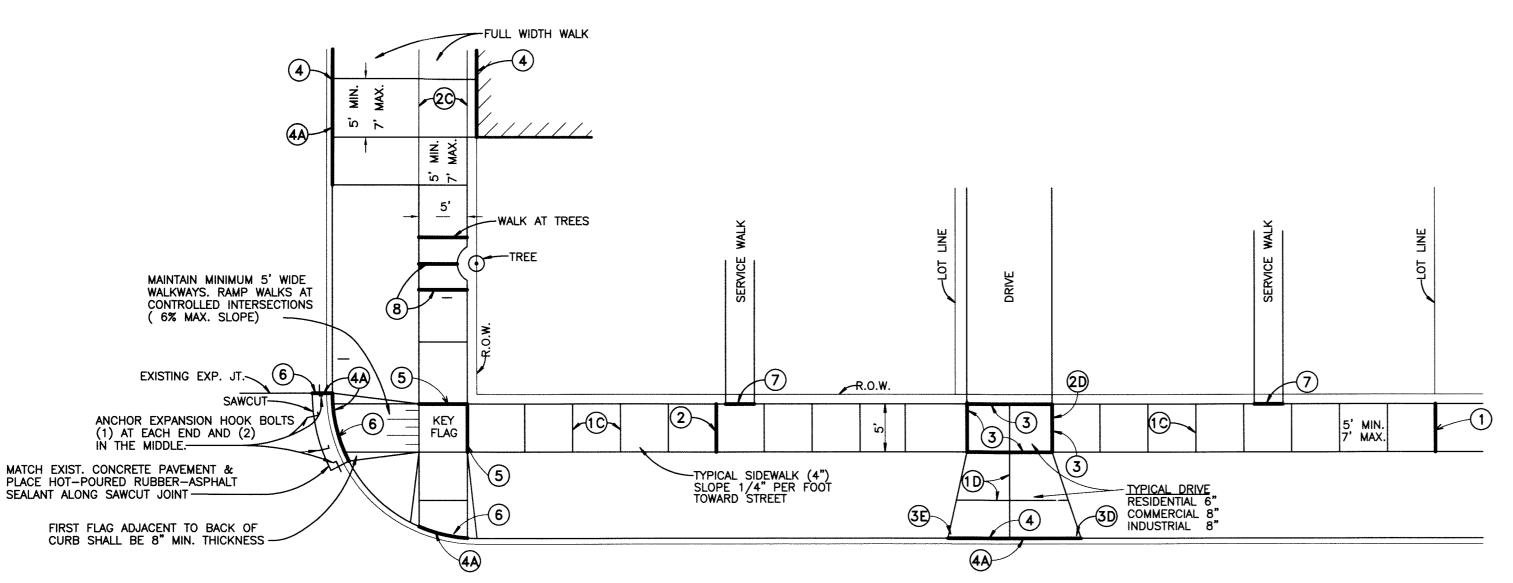
CITY OF ROCHESTER

STANDARD
PAVING DETAILS
(1 OF 2)

SHEET NO.

PAV1

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* EXPANSION JOINTS

- (1) PLACE 1/2" FIBER EXP. JOINT FILLERS AT LOT LINES WHEN LOTS ARE 50' OR LESS.
- (2) ADDITIONAL 1/2" FIBER EXP. JOINT FILLERS FOR LOTS GREATER THAN 50', NOT TO EXCEED 50' INTERVALS.
- 3 PLACE 1/2" FIBER EXP. JOINT FILLERS EACH SIDE OF DRIVE.
- (4) PLACE 1" FIBER EXP. JOINT FILLERS AT CURB AND BUILDING OR R.O.W. LINE.
- (4A) AT CURB LINE, EXPANSION JOINTS SHALL BE SEALED WITH HOT-POURED RUBBER-ASPHALT SEALANT.
- (5) PLACE 1/2" FIBER EXP. JOINT FILLERS AT KEY FLAG OF CROSS-WALKS.
- (6) PLACE 1" FIBER EXP. JOINT FILLERS AT INTERSECTIONS
- (7) PLACE 1/2" FIBER EXP. JOINT FILLER AT INTERSECTION OF SERVICE WALK & CURB ALSO AT SERVICE WALK & WALK.

OF CURB RADIUS AND IN LINE WITH EXISTING JOINTS.

(8) PLACE 1/2" FIBER EXP. JOINT FILLERS AT EITHER SIDE OF SIDEWALK ABUTTING TREE AND AT CENTERLINE JOINT. ROOT BARRIERS MAY BE REQUIRED.

CONTRACTION JOINTS

- 1C PLACE CONTRACTION JOINTS AT INTERVALS NOT LESS THAN 5' OR GREATER THAN 7', FULL WIDTH OF WALK. JOINT DEPTH SHALL BE 1/4" THICKNESS OF CONCRETE.
- (2C) PLACE CONTRACTION JOINTS AT WALK LINES FOR FULL WIDTH SIDEWALK.

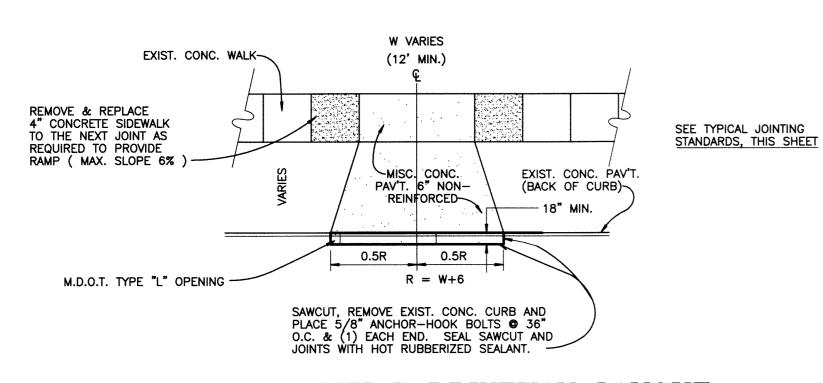
DRIVEWAYS

- (D) PLACE CONTRACTION JOINTS SO THAT NO SECTION OF THE CONCRETE DRIVEWAY EXCEEDS A DIMENSION OF 10'x10'.
- 2D PLACE 1" FIBER EXPANSION FILLER AT ALL SIDES OF A COMMERCIAL DRIVE.
- (3D) WIDTH OF APPROACH AT STREET SHOULD BE MIN. 3' WIDER THAN WIDTH AT SIDEWALK.
- (3E) WIDTH OF APPROACH AT STREET SHOULD BE MIN. 1.5' WIDER THAN WIDTH AT SIDEWALK.

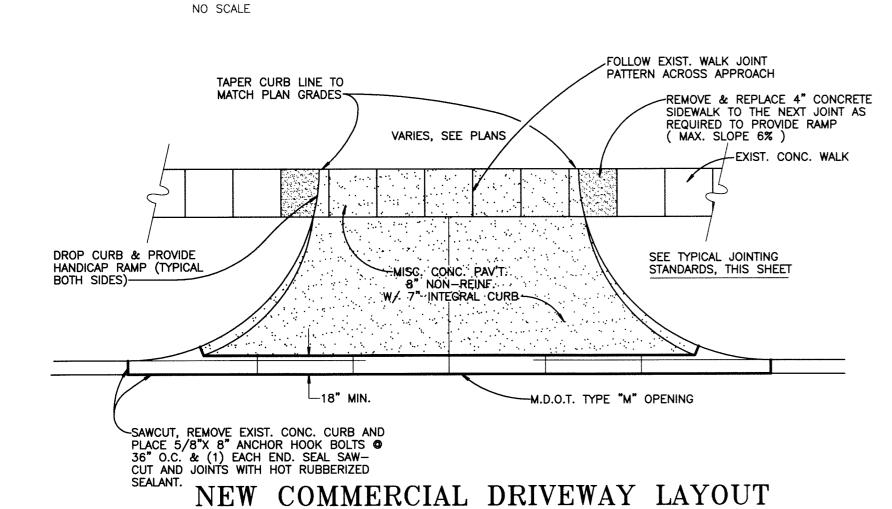
* FIBER EXPANSION JOINT FILLERS SHALL BE FULL DEPTH.

- 1. CONCRETE WORK NOT CONSTRUCTED UNDER THE CITY'S THROUGH THE CITY OF ROCHESTER DEPARTMENT OF
- 2. NO CONCRETE SHALL BE PLACED UNTIL A PRE-CHECK HAS BEEN REQUESTED BY THE CONTRACTOR OR HOME-OWNER AND APPROVED BY THE CITY OF ROCHESTER D.P.W. (248) 651-5165 - AT LEAST FORTY EIGHT (48) HOURS IN ADVANCE, FINAL INSPECTION IS ALSO REQUIRED
- STANDARDS & SPECIFICATIONS AVAILABLE THROUGH
- 4. HANDICAP RAMPS SHALL MEET A.D.A. BARRIER FREE REQUIREMENTS.
- 5. TRUNCATED DOME DETECTABLE WARNING PLATES SHALL BE CAST IRON - BLACK IN COLOR
- CONTRACTOR MUST BE DONE UNDER A PERMIT, SECURED
- AT THE PLACEMENT OF CONCRETE.
- 3. ALL WORK SHALL CONFORM TO THE CITY OF ROCHESTER THE CITY ENGINEER.

TYPICAL SIDEWALK & DRIVE APPROACH JOINTING STANDARDS

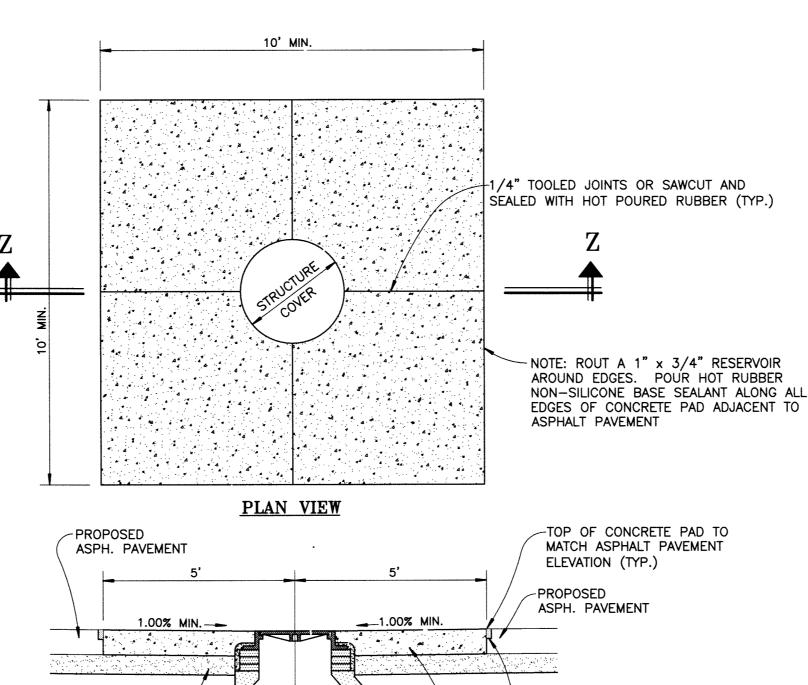


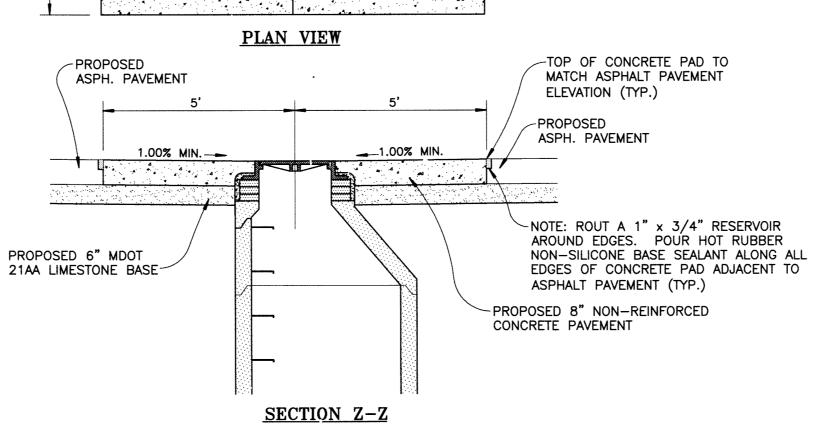
NEW RESIDENTIAL DRIVEWAY LAYOUT FOR EXISTING PAVEMENT CONDITION



FOR EXISTING PAVEMENT CONDITION

NO SCALE





CONCRETE PAD DETAIL AT STRUCTURE IN ASPHALT PAVEMENT NOT TO SCALE

REQUIREMENTS AND CONDITIONS FOR CONCRETE PAVEMENT

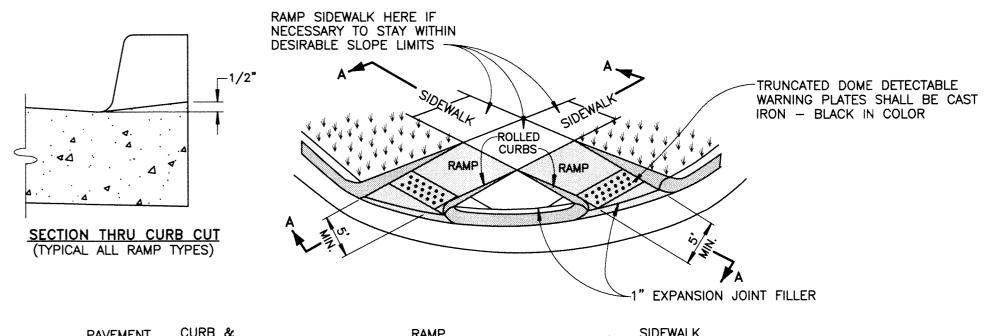
- 1. NO CONCRETE PAVING SHALL BE ALLOWED PRIOR TO MAY FIRST OR AFTER NOVEMBER FIRST. (UNLESS APPROVED BY THE DPW SUPERINTENDENT)
- 2. AIR TEMPERATURE AT POINT OF PLACEMENT, AWAY FROM ARTIFICIAL HEAT, SHALL BE AT LEAST 30° F AND RISING.
- 3. TEMPERATURE OF CONCRETE AT TIME OF PLACEMENT SHALL BE BETWEEN 45° F AND 90° F.
- 4. CONCRETE SHALL HAVE A SLUMP BETWEEN 2"-3".
- 5. CONCRETE SHALL HAVE AN AIR CONTENT OF 6% ±1%.
- 6. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3500 PSI (MIN.)
- 7. MAXIMUM TIME INTERVAL BETWEEN CHARGING OF MIXER AND PLACING OF CONCRETE, MINUTES:

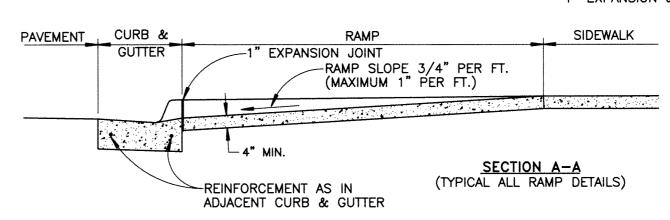
GENERAL NOTES

- 1. PRIOR TO PLACEMENT OF BASE MATERIAL OR PAVEMENTS THE CONTRACTOR SHALL PROOFROLL THE SUBGRADE AND REMOVE ANY UNSUITABLE MATERIAL OBSERVED.
- 2. ALL BASE MATERIAL SHALL BE COMPACTED TO 95% OF ITS MAXIMUM UNIT WEIGHT.
- 3. FOR RESIDENTIAL USES, THE OWNER SHALL RETAIN THE SERVICES OF A GEOTECHNICAL CONSULTING/TESTING FIRM, ALL FILL MATERIAL AND BASE MATERIAL SHALL BE TESTED AND ITS COMPACTION AND SUITABILITY FOR ACCEPTANCE OF THE BASE MATERIAL AND PAVEMENT SHALL BE CERTIFIED BY SAID TESTING FIRM. THE OWNER SHALL SUPPLY THREE COPIES OF THE GEOTECHNICAL REPORT AND CERTIFICATION TO THE CITY DEPARTMENT OF PUBLIC WORKS.
- 4. IF IN THE OPINION OF THE INSPECTOR/ENGINEER, FIELD CONDITIONS WARRANT ADDITIONAL TESTING, THE DEVELOPER SHALL ARRANGE FOR AND PAY FOR ALL REQUIRED TESTING.

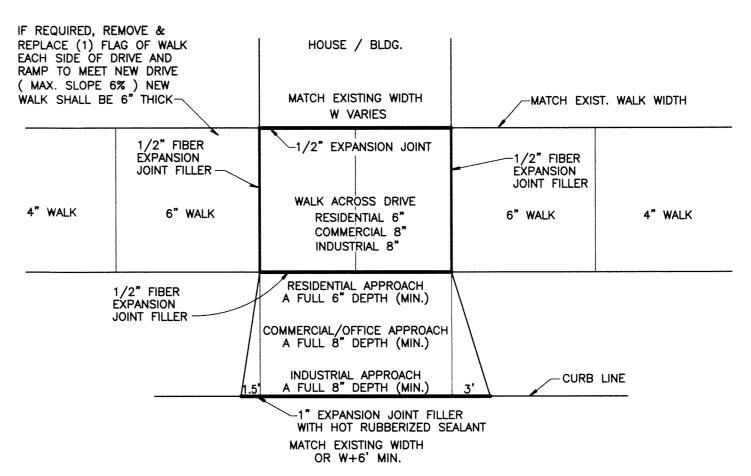
TYPE OF UNIT	TEMPERATURE OF CONCRETE					
TIPE OF UNIT	BELOW 60° F	60° F TO 85° F	ABOVE 85° F			
CLOSED TOP AGITATING UNITS & TRUCK MIXERS (A)	90	60	45			
TRUCK MIXERS AND CLOSED TOP AGITATING UNITS WITH CONCRETE						
CONTAINING WATER-REDUCING						
RETARDING ADMIXTURE	120	90	70			

- (A) SUPERSTRUCTURE CONCRETE SHALL MEET THE TIME LIMITS FOR CLOSED TOP AGITATING UNITS AND TRUCK MIXERS.
- 8. SPECIAL CONDITIONS SHALL REQUIRE REVIEW AND APPROVAL THE CITY ENGINEER.



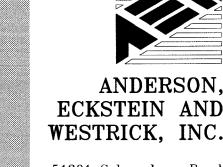


TYPICAL RAMP INSTALLATION (M.D.O.T. TYPE 4)



REMOVAL AND REPLACEMENT OF EXISTING DRIVE APPROACH FOR EXISTING OR NEW PAVEMENT CONDITION

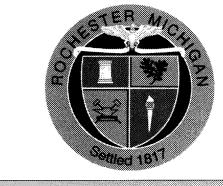
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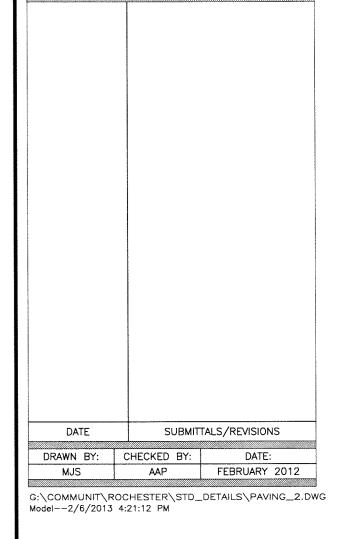


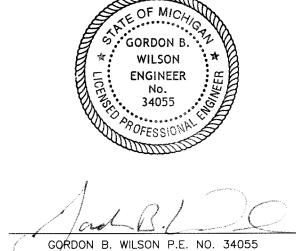
ECKSTEIN AND WESTRICK, INC. 51301 Schoenherr Road Shelby Township

Phone 586 726 1234 Fax 586 726 8780 www.aewinc.com

Michigan 48315







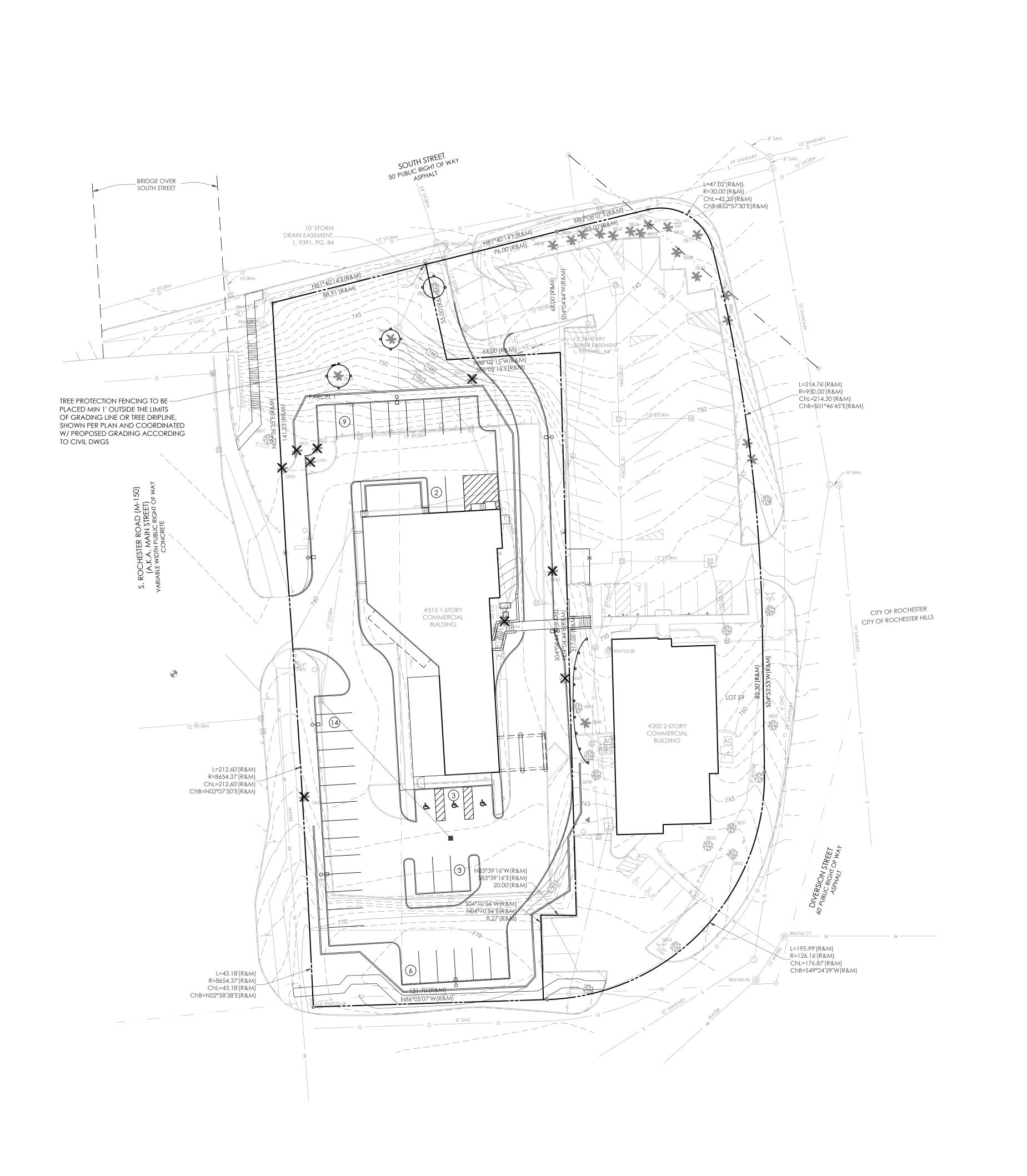
DEPARTMENT OF PUBLIC WORKS

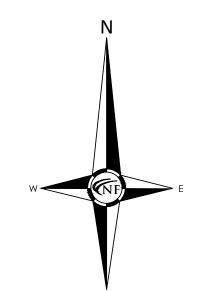
APPROVED BY: WILLIAM BOHLEN, DIRECTOR

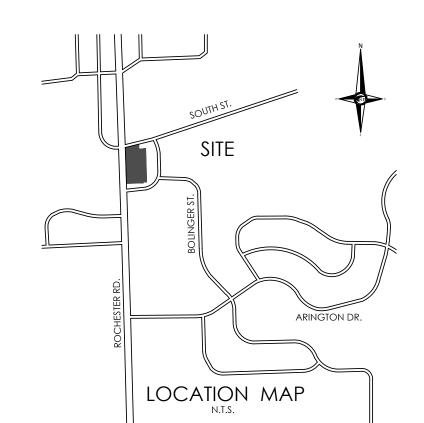
CITY OF ROCHESTER

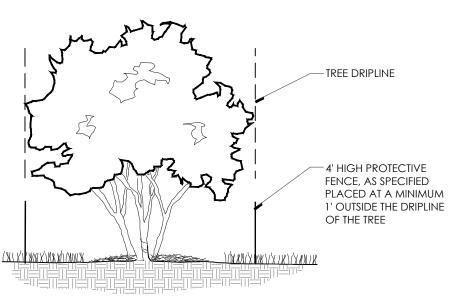
STANDARD PAVING DETAILS (2 OF 2)

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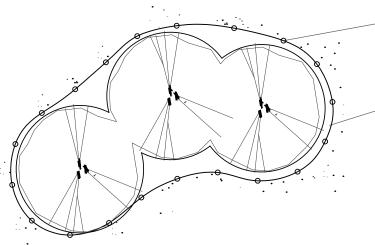








TREE PROTECTION DETAIL-SECTION



EVERY 10' O.C.
INSTALL POSTS A MIN. 24"
INTO GROUND, TYPICAL

4' HIGH FENCING, AS SPECIFIED,
TO BE PLACED 1' OUTSIDE THE DRIP

— 5/8" X 6'8" RE-ROD, OR EQUAL, SUPPORT POSTS

LINE OR LIMITS OF GRADING, AS INDICATED ON PLAN, TYPICAL

NOTE:
FENCING TO BE 4' HIGH ORANGE
SNOW FENCE, OR APPROVED EQUAL

FENCING TO BE 4' HIGH ORANGE SNOW FENCE, OR APPROVED EQ PROTECTION FENCING TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD

TREE PROTECTION DETAIL-PLAN

LEGEND:

TREES TO BE REMOVED

950 TREES TO REMAIN

TREE PROTECTION FENCING

GENERAL TREE PROTECTION NOTES

1. APPROVED TREE PROTECTION SHALL BE ERECTED PRIOR TO THE START

OF CONSTRUCTION ACTIVITIES, AND SHALL REMAIN IN PLACE UNTIL THE
IN PLACE UNTIL CONSTRUCTION IS COMPLETE.

2. ALL UNDERSTORY VEGETATION WITHIN THE LIMITS OF PROTECTIVE FENCING
SHALL BE PRESERVED.

3. NO PERSON MAY CONDUCT ANY ACTIVITY WITHIN THE DRIP LINE OF ANY
TREE DESIGNATED TO REMAIN, INCLUDING BUT NOT LIMITED TO, PLACING
SOLVENTS, BUILDING MATERIALS, CONSTRUCTION EQUIPMENT, OR SOIL DEPOSITS
WITHIN THE DRIP LINE.

4. WHERE GROUPINGS OF TREES ARE TO REMAIN, TREE FENCING SHALL BE
PLACED AT THE LIMITS OF GRADING LINE.

5. DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE
TO ANY TREE, SCHEDULED TO REMAIN.

6. ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE
INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL
OCCUR OUTSIDE OF THE PROTECTIVE FENCING.

7. SWALES SHALL BE ROUTED TO AVOID THE AREA WITHIN THE DRIP LINES OF
PROTECTED TREES.

8. TREES LOCATED ON ADJACENT PROPERTIES THAT MAY BE AFFECTED BY CONSTRUCTION
ACTIVITIES MUST BE PROTECTED.

STAKED FENCING.

10. THE PARKING OF IDLE AND RUNNING EQUIPMENT SHALL BE PROHIBITED UNDER THE DRIP LINE OF PROTECTED TREES.

11. THE STRIPPING OF TOPSOIL FROM AROUND PROTECTED TREES SHALL BE PROHIBITED.

12. ALL TREES TO BE REMOVED SHALL BE CUT AWAY FROM TREES TO REAMIN.

13. THE GRUBBING OF UNDERSTORY VEGETATION WITHIN CONSTRUCTION AREAS SHOULD BE CLEARED BY CUTTING VEGETATION AT THE GROUND WITH A CHAIN SAW OR MINIMALLY WITH A HYDRO-AXE.

9. ROOT ZONES OF PROTECTED TREES SHOULD BE SURROUNDED WITH RIGIDLY

MINIMALLY WITH A HYDRO-AXE.

14. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT PER ORDINANCE
GUIDELINES, FOR THE DAMAGE OR REMOVAL OF ANY TREE DESIGNATED TO REMAIN.

15. TREES TO BE REMOVED SHALL BE FIELD VERIFIED, EVALUATED AND FLAGGED FOR
REMOVAL, BY THE LANDSCAPE ARCHITECT OR FORESTER, ONLY AS DIRECTED
BY THE OWNER OR OWNERS REPRESENTATIVE.

TREE PRESERVATION SUMMARY:

TOTAL NUMBER OF TREES SURVEYED:
TOTAL TREES ON-SITE:
LESS NUISANCE TREES:
NET REGULATED TREES ON SITE:
REGULATED TREES TO BE REMOVED:
TOTAL NUMBER OF TREES TO REMAIN:
TOTAL LANDMARK TREES REMOVED:

TOTAL REGULATED DBH TO BE REPLACED: TOTAL TREES TO BE REPLACED:

60" (120" X 50%) 20 TREES (60"/ 3")



NOWAK & FRAUS ENGINEERS

CIVIL ENGINEERS Land Surveyors Land Planners

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM

SEAL



PROJECT

Chief Financial Credit Union 515 S. Rochester Rd.

CLIENT

CBI Design Professionals 838 W. Long Lake Rd Suite 110 Bloomfield Hills, MI 48302

Contact: Amanda Fox Ph: (248) 645-2605

PROJECT LOCATION

Part of the Northwest 1/4 of Section 14 T. 3 North, R. 11 East City of Rochester and City of Rochester Hills, Oakland County, Michigan

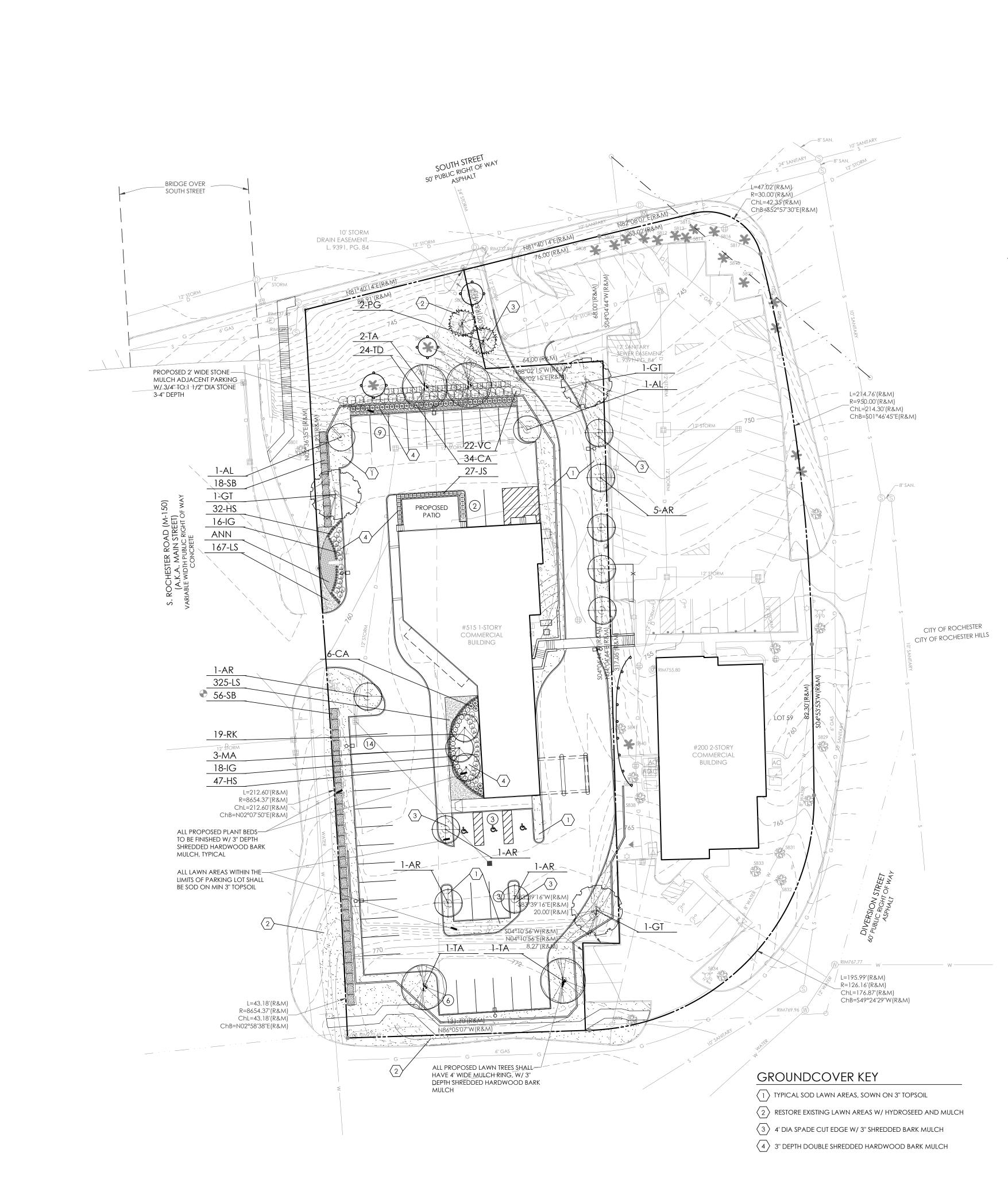
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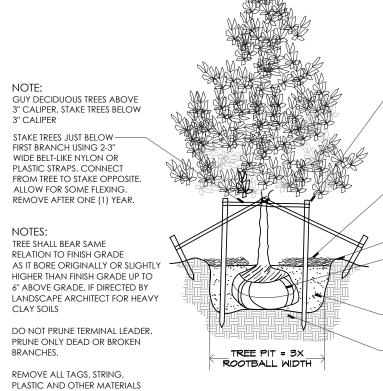
Tree Preservation



DATE	ISSUED		
08/28/2020 RE	VISED PER	ARCHITE	ECT
DRAWN BY:			
G. Ostrov	vski		
DESIGNED	BY:		
G. Ostrov	vski		
APPROVED	BY:		
G. Ostrov	vski		
DATE:			
August 4,	, 2020		
SCALE: 1"	201		

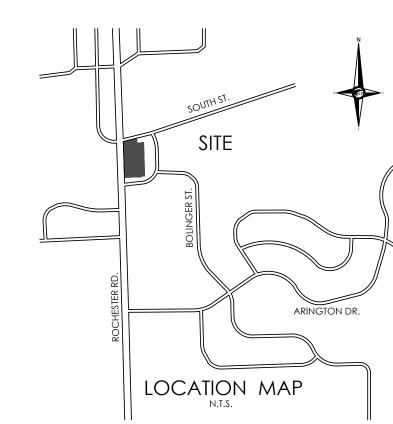
L880





PER TREE, 36" ABOVE GROUND FOR UPRIGHT, 18" IF ANGLED. SOIL 6-8" OUTSIDE ROOTBALL TO A DEPTH OF 18" BELOW TREE PIT. REMOVE AFTER ONE (1) YEAR. WIRE OR ROPE THROUGH A HOSE SHALL NOT BE ALLOWED. MULCH 3" DEPTH WITH SHREDDED HARDWOOD BARK, MULCH SHALL BE AROUND BASE OF TREE. ROOTBALL

- MOUND TO FORM 3" EARTH SAUCER MATERIALS FROM THE ROOTBALL. CUT DOWN WIRE BASKET AND FOLD DOWN ALL BURLAP FROM 1/2 OF SITE CONDITIONS AND REQUIREMENTS OF THE PLANT MATERIAL - SCARIFY SUBGRADE AND PLANTING PIT SIDES. RECOMPACT PIT BASE TO



- MAINTAIN 2" CLEAR AREA FROM STEM - MULCH 3" DEPTH W/ SHREDDED

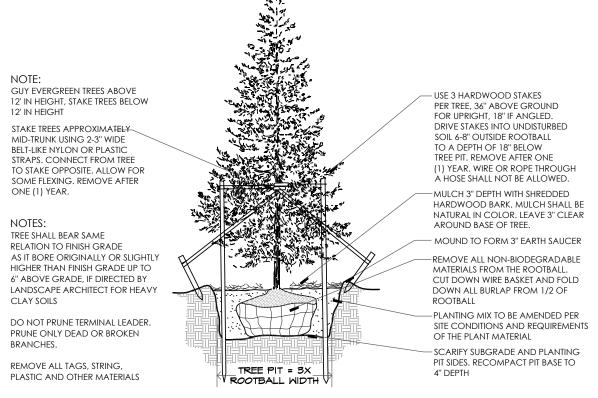
EARTH SAUCER AROUND SHRUB PLANTING MIX, AS SPECIFIED

NOWAK & FRAUS **ENGINEERS**

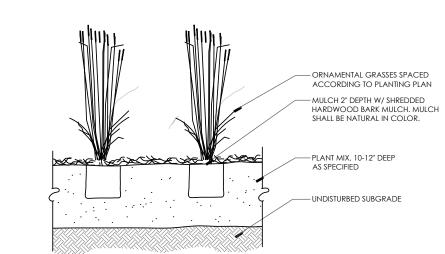
CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM

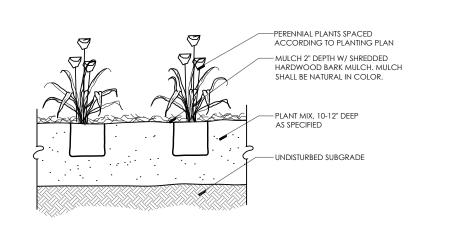
DECIDUOUS TREE PLANTING DETAIL



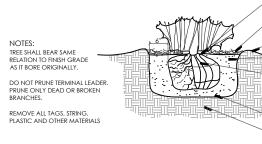
EVERGREEN TREE PLANTING DETAIL



ORNAMENTAL GRASS PLANTING DETAIL

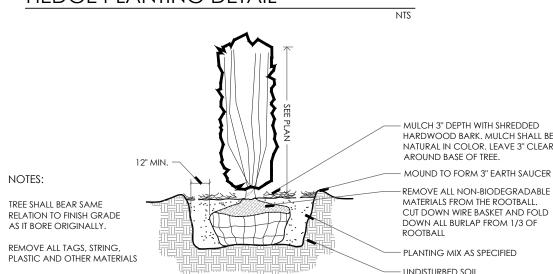


PERENNIAL PLANTING DETAIL



REMOVE ALL NON-BIODEGRADABLE MATERIALS FROM THE ROOTBALL. FOLD DOWN ALL BURLAP FROM TOP 1/3 OF ROOTBALL. SCARIFY SUBGRADE UNDISTURBED SOIL

HEDGE PLANTING DETAIL



UPRIGHT EVERGREEN SHRUB PLANTING DETAIL

GENERAL LANDSCAPE NOTES

LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK. IN CASE OF DISCREPANCY BETWEEN PLAN AND PLANT LIST, THE PLAN SHA GOVERN QUANTITIES. CONTACT THE LANDSCAPE ARCHITECT WITH ANY

CONCERNS.
2. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL ON-SITE UTILITIES PRIOR TO BEGINNING CONSTRUCTION ON HIS/HER PHASE OF WORK. ANY DAMAGE OR INTERUPTION OF SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

OF THE CONTRACTOR.

3. THE CONTRACTOR SHALL COORDINATE ALL RELATED ACTIVITIES WITH OTHER TRADES, AND SHALL REPORT ANY UNACCEPTACBLE SITE CONDITIONS TO THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT.

4. PLANTS SHALL BE FULL, WELL-BRANCHED, AND IN HEALTHY VIGOROUS

PLANTS SHALL BE FULL, WELL-BRANCHED, AND IN HEALTHY VIGOROUS GROWING CONDITION.
 PLANTS SHALL BE WATERED BEFORE AND AFTER PLANTING IS COMPLETE.
 ALL TREES MUST BE STAKED, FERTILIZED AND MULCHED AND SHALL BE GUARANTEED TO EXHIBIT A NORMAL GROWIH CYCLE FOR AT LEAST ONE (1) YEAR FOLLOWING PLANTING.
 ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED IN THE MOST RECENT EDITION OF THE "AMERICAN STANDARDS FOR NURSERY STOCK".
 CONTRACTOR WILL SUPPLY FINISHED GRADE AND EXCAVATE AS NECESSARY TO SUPPLY PLANT MIX DEPTH IN ALL PLANTING BEDS AS INDICATED IN PLANT DETAILS AND A DEPTH OF 4" IN ALL LAWN AREAS.
 PROVIDE CLEAN BACKFILL SOIL, USING MATERIAL STOCKPILED ON-SITE. SOIL SHALL BE SCREENED AND FREE OF DEBRIS, FOREIGN MATERIAL, AND STONE.
 SLOW-RELEASE FERTILIZER SHALL BE ADDED TO THE PLANT PITS BEFORE BEING BACKFILLED. APPLICATION SHALL BE AT THE MANUFACTURERS RECOMMENDE

BEING BACKFILLED. APPLICATION SHALL BE AT THE MANUFACTURERS RECOMMENDED

BEING BACKFILED. APPLICATION SHALL BE ADDED TO THE PLANN PITS BEFORE
BEING BACKFILED. APPLICATION SHALL BE AT THE MANUFACTURERS RECOMMENDED
RATES.

11. AMENDED PLANT MIX (PREPARED TOPSOIL) SHALL CONSIST OF 1/3 SCREENED TOPSOIL,
1/3 SAND, AND 1/3 "DAIRY DOO" COMPOST, MIXED WELL AND SPREAD TO A DEPTH AS
INDICATED IN PLANTING DETAILS.

12. ALL PLANTINGS SHALL BE MULCHED WITH SHREDDED HARDWOOD BARK, SPREAD TO
A DEPTH OF 3" FOR TREES AND SHRUBS, AND 2" ON ANNUALS, PERENNIALS, AND
GROUNDCOVER PLANTINGS, MULCH SHALL BE FREE FROM DEBRIS AND FOREIGN
MATERIAL, AND PIECES ON INCONSISTENT SIZE.

13. NO SUBSTITUTIONS OR CHANGES OF LOCATION, OR PLANT TYPE SHALL BE MADE
WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE.

14. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN
THE PLANS AND FIELD CONDITIONS PRIOR TO INSTALLATION.

15. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL PLANT
MATERIAL IN A VERTICAL CONDITION THROUGHOUT THE GUARANTEED PERIOD.

16. THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE SHALL HAVE THE RIGHT
TO REJECT ANY WORK OR MATERIAL THAT DOES NOT MEET THE REQUIREMENTS OF
THE PLANS AND/OR SPECIFICATIONS.

THE LANDSCAPE CONTRACTOR SHALL SEED AND MULCH OR SOD (AS INDICATED ON PLANS) ALL AREAS DESIGNATED AS SUCH ON THE PLANS, THROUGHOUT THE CONTRACT LIMITS. FURTHER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING AREAS DISTURBED DURING CONSTRUCTION, NOT IN THE CONTRACT LIMITS, TO EQUAL OR

GREATER CONDITION.

18. ALL LANDSCAPE AREAS SHALL HAVE PROPER DRAINAGE THAT PREVENTS EXCESSIVE WATER FROM PONDING ON LAWN AREAS OR AROUND TREES AND SHRUBS.

19. ALL LANDSCAPE AREAS SHALL BE IRRIGATED WITH AN AUTOMATIC UNDERGROUND SYSTEM.

PLANT SCHEDULE

KEY	QTY	BOTANICAL/COMMON NAME	SIZE	SPACING	ROOT	COMMENT
TREES						
AR	9	Acer rubrum 'Armstrong' Armstrong Maple	3" CAL	SEE PLAN	B&B	FULLY BRANCHED HEA
AL	2	Amelanchier laevis Allegheny Serviceberry	6-8' HT	SEE PLAN	B&B	CLUMP FORM
GT	3	Gleditsia triacanthos 'Sunburst' Sunburst Honey Locust	3" CAL	SEE PLAN	B&B	FULLY BRANCHED HEA
MA	3	Malus 'Adirondack' Adirondack Crabapple	2.5" CAL	SEE PLAN	B&B	FULLY BRANCHED HEA
PG	2	Picea glauca 'Densata' Black Hills Spruce	8' HT	SEE PLAN	B&B	FULL TO GROUND
TA	4	Tilia americana 'McKSentry' American Sentry Linden	3" CAL	SEE PLAN	B&B	FULLY BRANCHED HEA
SHRUBS					•	
IG	34	<u>llex glabra</u> 'Gem Box' Gem Box Holly	30" HT	30" OC	B&B	
JS	27	Juniperus scopulorum 'Grey Gleam' Grey Gleam Juniper	5' HT	30" OC	B&B	
RK	19	Rosa 'Double Knockout' Double Knockout Rose	30" HT	30" OC	CONT	
SB	74	<u>Spiraea</u> x b. 'Anthony Waterer' Anthony Waterer Spiraea	30" HT	30" OC	B&B	MAINTAIN AS HEDGE
TD	24	Taxus x m. 'Densata' Dense Yew	30" HT	30" OC	B&B	MAINTAIN AS HEDGE
VC	22	Viburnum carlesii Koreanspice Viburnum	36" HT	42" OC	B&B	
GROUN	DCOVERS/F					
CA	40	<u>Calamagrostis a.</u> 'Karl Foerster' Karl Foerster Feather Reed Grass	3 GAL	36" OC	CONT	
HS	79	Hemerocallis 'Stella D'Oro' Stella D'Oro Daylily	2 GAL	24" OC	CONT	
LS	492	Liriope spicata Creeping Lilyturf	1 GAL	12" OC	CONT	
ANN	159 S.F.	Mixed Seasonal Annuals				

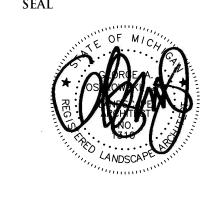
LANDSCAPE REQUIREMENTS EXISTING SITE ZONING: B-1, GENERAL BUSINESS DISTRICT

EXISTING SITE AREA: 53,764.50 S.F. OR 1.23 ACRES

REQUIRED OPEN SPACE 10% OF THE SITE SHALL BE LANDSCAPE AREA REQUIRED: 53,764.50 S.F. X 10% = 5,376.45 S.F. REQUIRED PROVIDED: 15,515.04 S.F., 28.85%

PARKING LOT LANDSCAPE 1 TREE PER 20 SPACES 45 PARKING SPACES PROVIDED 45 SPACES /20 = 2.25 OR 3 TREES REQUIRED 4 TREES PROVIDED

REPLACEMENT TREES 20 TREES REQUIRED 20 TREES PROVIDED



PROJECT Chief Financial Credit Union

515 S. Rochester Rd.

CLIENT

CBI Design Professionals 838 W. Long Lake Rd Suite 110 Bloomfield Hills, MI 48302

Contact: Amanda Fox Ph: (248) 645-2605

PROJECT LOCATION

Part of the Northwest 1/4 of Section 14 T. 3 North, R. 11 East City of Rochester and City of Rochester Hills,

Oakland County, Michigan

SHEET

Landscape Plan



	O/REVISED
08/28/2020 REVISED PER	RARCHITECT
DRAWN BY:	
G. Ostrowski	
DESIGNED BY:	
G. Ostrowski	
APPROVED BY:	
G. Ostrowski	
DATE:	
August 4, 2020	
SCALE: 1" = 30'	
30 15 0	15 30 4
NFE JOB NO.	SHEET NO.
L880	L2

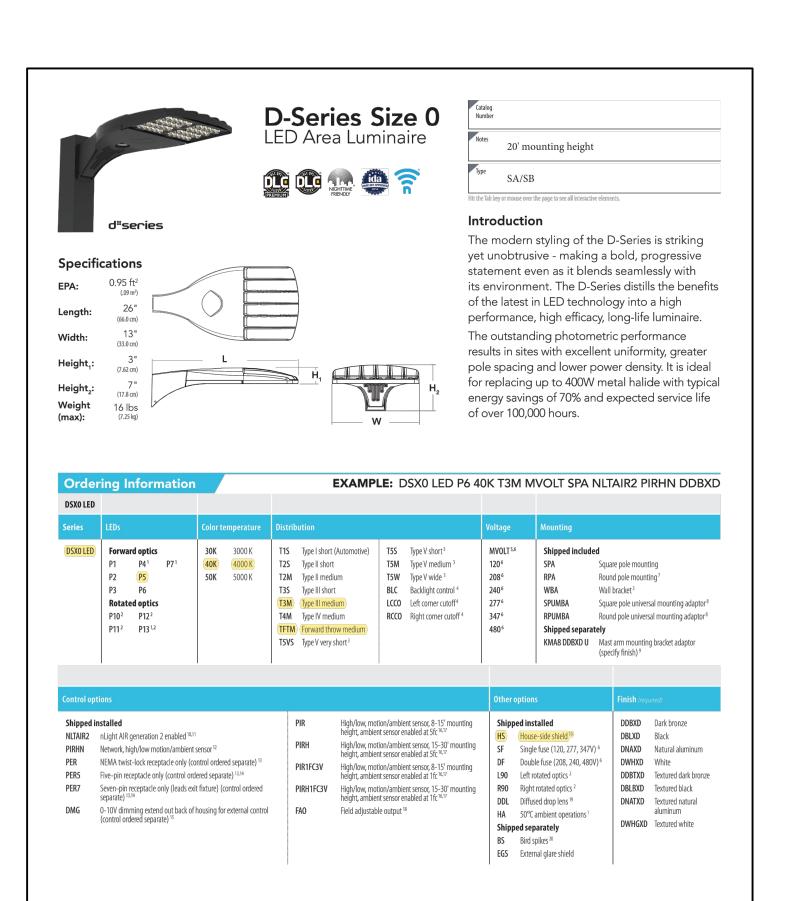
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CBI Design Professionals 338 W. Long Lake, Suite 1 loomfield Hills, MI 4830 P: 248.645.2605 ETS ENGINEERING, INC. F: 248.647.7307 CNERGY / TECHNOLOGY SOLUTIONS 418-1/2 S. WASHINGTON P.O. BOX 1116 ROYAL OAK, MI 48068-1116 www.cbidesign.net

OFF: 248/744-0360 FAX: 248/744-0367 WWW.ETSENGINEERING.NET



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com

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LITHONIA LIGHTING.

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
•-	SA	3	Lithonia Lighting	DSX0 LED P5 40K T3M MVOLT HS	DSX0 LED P5 40K T3M MVOLT with houseside shield MOUNTED @ 20'-0" AFG	LED	1	DSX0_LED_P5_40K_ T3M_MVOLT_HS.ies	9194	0.9	89
•-	SB	6	Lithonia Lighting	DSX0 LED P5 40K TFTM MVOLT HS	DSX0 LED P5 40K TFTM MVOLT with houseside shield MOUNTED @ 20'-0" AFG	LED	1	DSX0_LED_P5_40K_ TFTM_MVOLT_HS.ies	9119	0.9	89
0	G1	6	Lithonia Lighting	EPANL 2x2 4000LM 80CRI 40K	EPANL 2x2, 4000 Nominal Lumens, 80 CRI, 4000K CCT MOUNTED @ 10'-0" AFG		1	EPANL_2x2_4000LM _80CRI40K.ies	4144	0.9	31.68
11/	W1	4	Lithonia Lighting	WST LED P2 40K VW MVOLT	WST LED, Performance package 2, 4000 K, visual comfort wide, MVOLT MOUNTED @ 10'-0" AFG	LED	1	WST_LED_P2_40K_V W_MVOLT.ies	3511	0.9	25
W	W2	4	Lithonia Lighting	WST LED P2 40K VF MVOLT	WST LED, Performance package 2, 4000K, visual comfort forward throw, MVOLT MOUNTED @ 10'-0" AFG	LED	1	WST_LED_P2_40K_V F_MVOLT.ies	3469	0.9	25

0.1 0.2 0.4 0.5 0.7 0.7

0.8 1.3 1.9 3.0 3.0 1.9 1.3 0.9 1.2

\$\dagger{0}.9 \quad \dagger{1}.5 \quad \dagger{2}.1 \quad \dagger{2}.7 \quad \dagger{2}.2 \quad \dagger{1}.6 \quad \dagger{1}.1 \quad \dagger{1}.2

[†]1.1 [†]1.4 [†]1.9 [†]2.3 [†]2.3 [†]2.1 [†]2.1 [†]1.6 [†]1.2 [†]1.2 [†]1.9

1.3 1.6 2.1 2.4 2.1 2.0 1.9 1.5 1.7

0.0

0.3

0.4

\tag{0.3}

1.9 [†]2.6

SA 2.8

0.1 [†]1.5 [†]1.8

0.1 1.1 1.3 1.

0.9 [†]1.1 [†]1.4

1.2

√1.6 ¹.6 ¹.4

 $^{\dagger}2.5$ $^{\dagger}2.4$ $^{\dagger}2.5$ $^{\dagger}1.6$

[†]1.6 [†]1.9 [†]2.0 [†]1.6

0.5 2.0 2.0 2.4 2.5 2.0

 $^{\dagger}1.3 \quad ^{\dagger}1.5 \quad ^{\dagger}1.7 \quad ^{\dagger}1.4 \quad ^{\dagger}0.9$

SB 3.1 2.7 2.5 1.6

 $^{\dagger}_{0.7}$ $^{\dagger}_{2.6}$ $^{\dagger}_{2.3}$ $^{\dagger}_{2.5}$ $^{\dagger}_{1.7}$

[†]2.0 [†]1.5

3.3 [†]2.7 [†]2.0

1.9 [†]2.5

1.3 1.9 2.4 2.7 2.6 2.4 1.8 1.3 1.1 1.9

0.6 0.9

3.4 [†]2.5 [†]2.3

[†]1.6 [†]1.8 [†]1.7 [†]1.1

1.7 ².1 ².0 ¹.1

5.0 6.2 5.3 1.9

 $W2 \pi^{-}$ 10.0 10.0 7.9 2.4

[†]2.1 [†]2.4 [†]2.3 [†]2.7

SITE PHOTOMETRIC PLAN

Scale 1" = 30'

1.4 1.5 1.9 1.9 1.4 1.2 1.4 2.6 6.3 45 3.0 2.8 2.2 1.2

0.7 3.3 3.2 2.9 3.1 2.4 1.5 1.3 1.4 1.8 2.5 2.5 3.6 SB

0.9 1.3 1.7 1.9 2.2 2.7 2.8 2.9 2.6 1.9

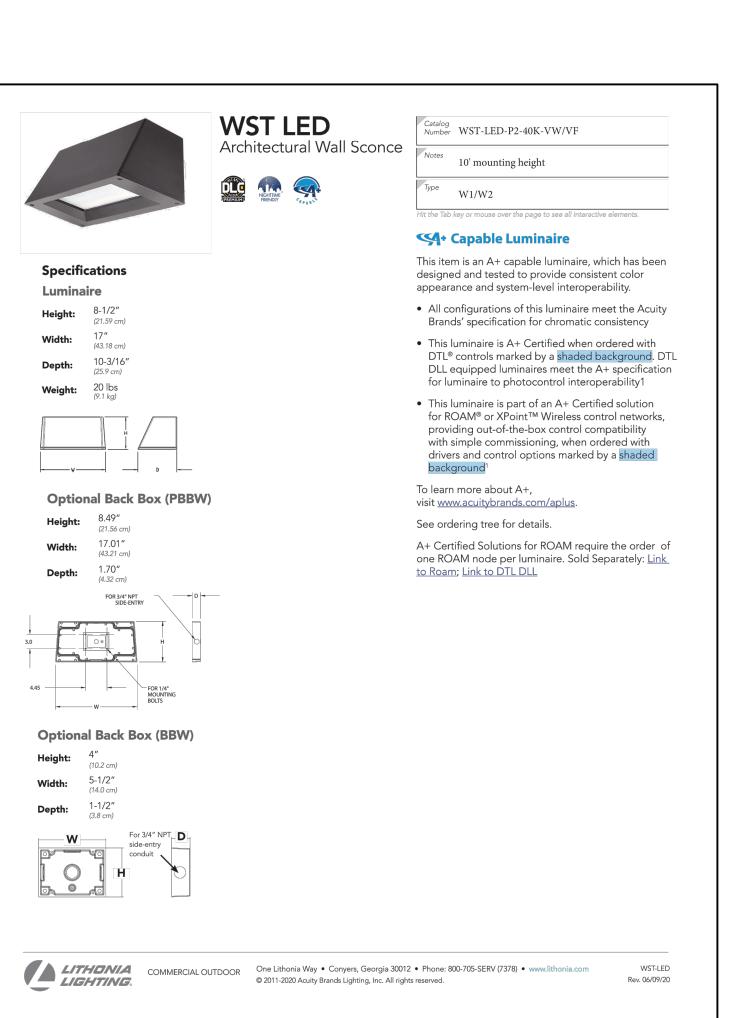
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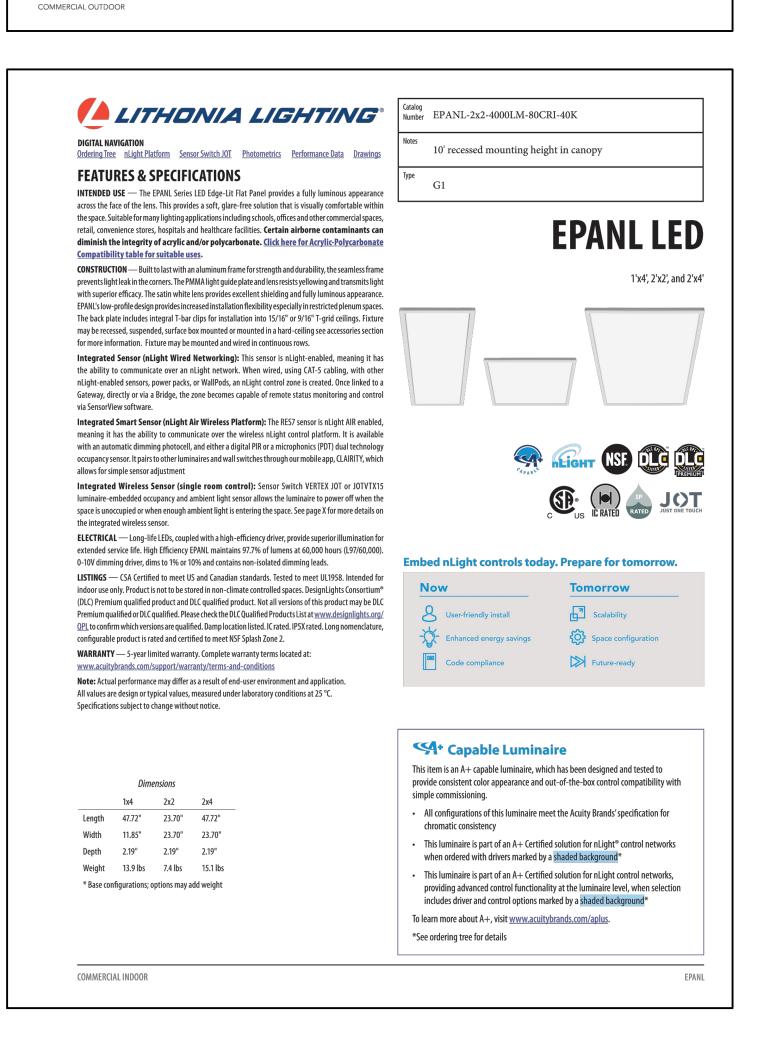
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1.5 2.3 2.1 2.8 1.7 1.2

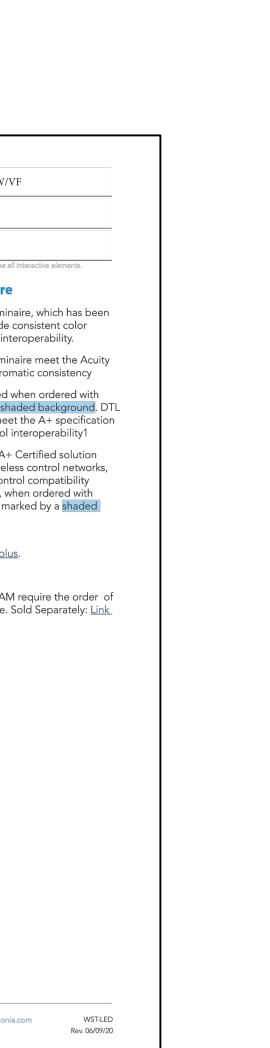
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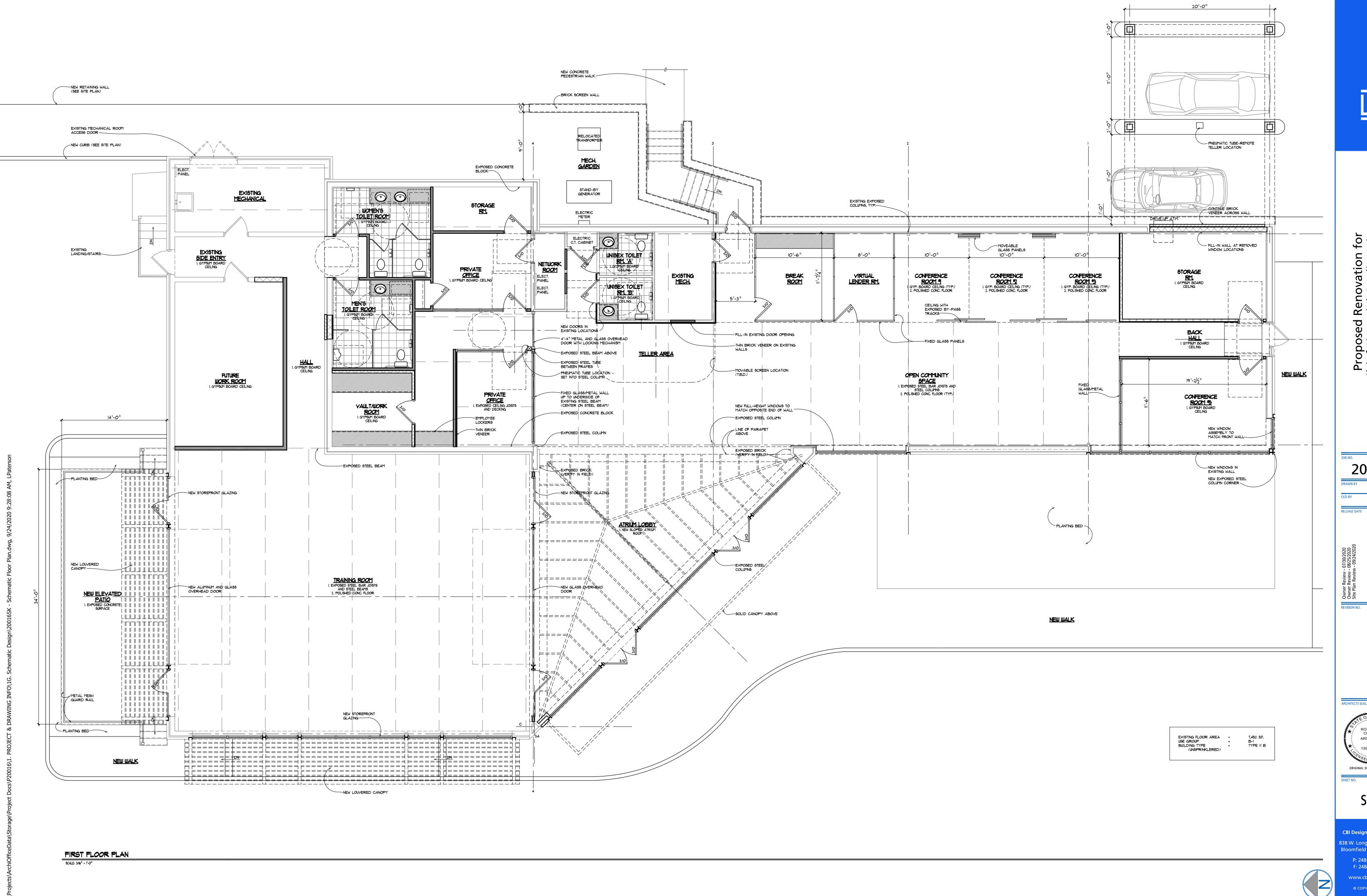
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Canopy	+	22.2 fc	23.2 fc	21.2 fc	1.1:1	1.0:1
North Parking/Drive	+	1.9 fc	4.2 fc	0.8 fc	5.3:1	2.4:1
NorthEast Drive	+	2.3 fc	6.2 fc	0.6 fc	10.3:1	3.8:1
Property Line	+	0.3 fc	1.3 fc	0.0 fc	N/A	N/A
South Parking	+	2.4 fc	10.0 fc	0.9 fc	11.1:1	2.7:1





DSX0-LED Rev. 07/30/20 Page 1 of 8

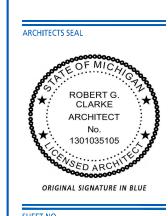




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AEF



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2

AEF RGC

ner Keview - 08/25/2020 Plan Review - 09/24/2020

Owner Review Owner Review Site Plan Review

ROBERT G.
CLARKE
ARCHITECT
No.
1301035105

ORIGINAL SIGNATURE IN BLUE

SK2

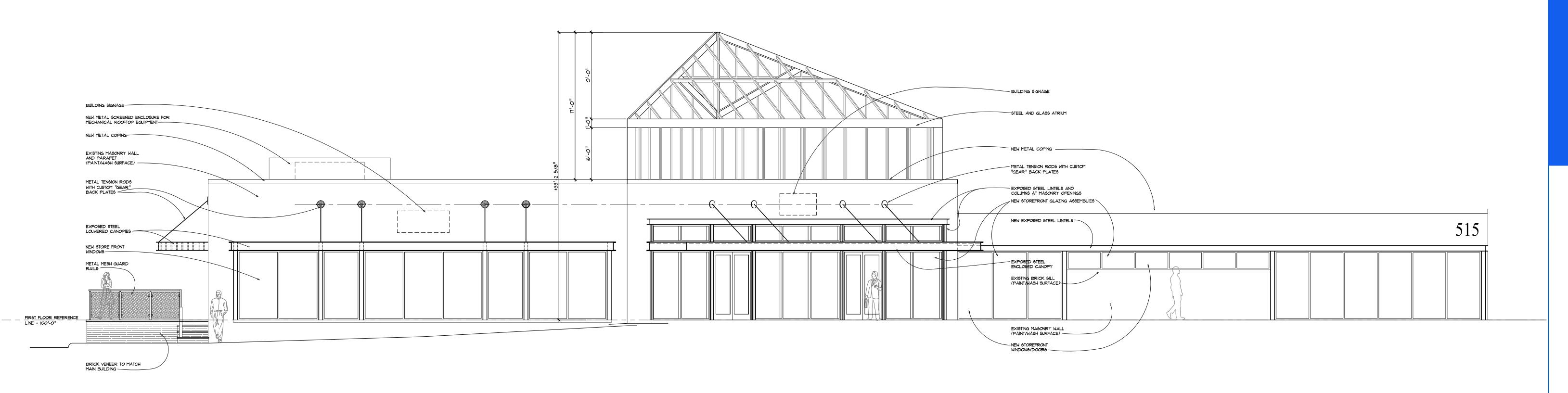
CBI Design Professionals

838 W. Long Lake, Suite 110
Bloomfield Hills, MI 48302

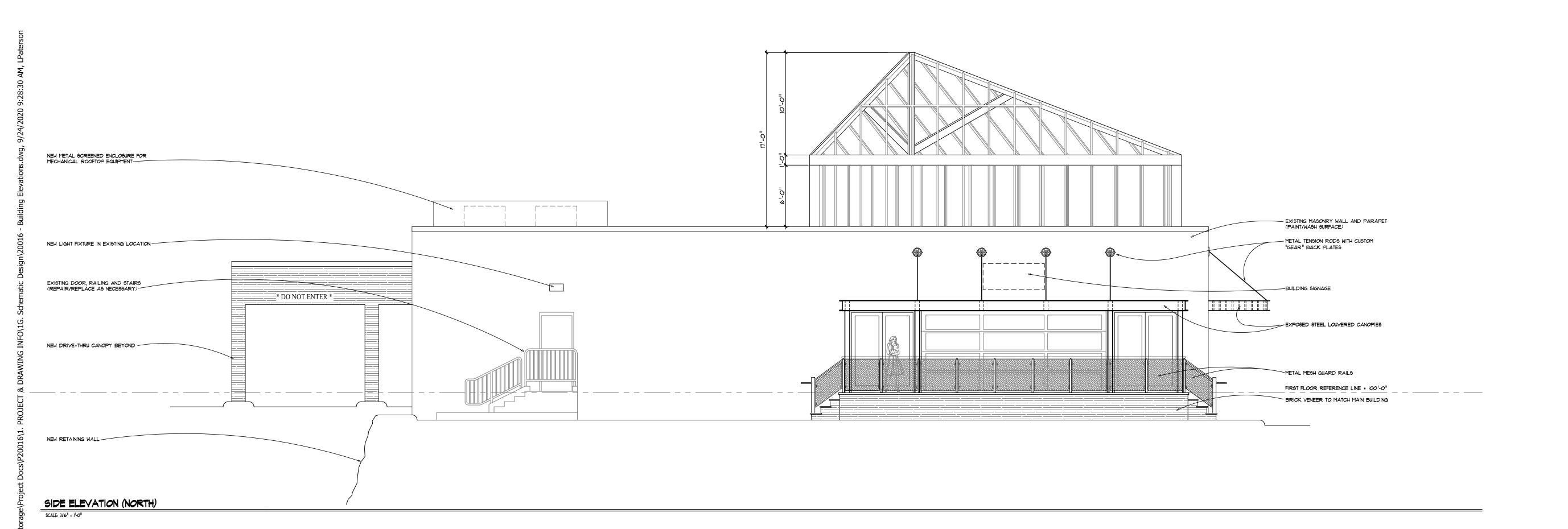
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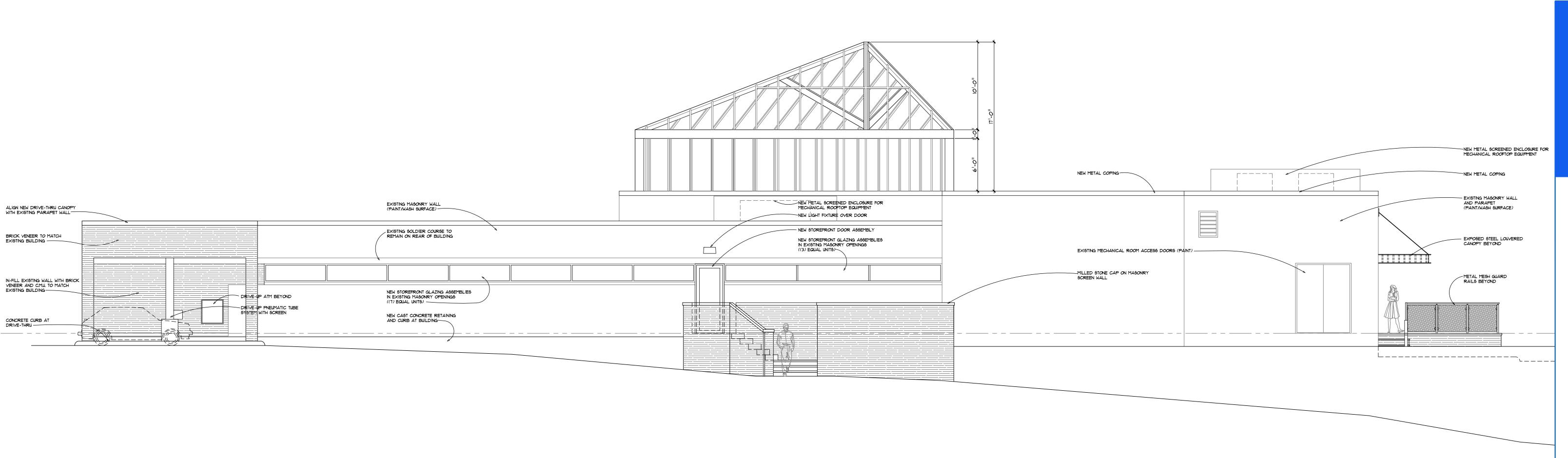
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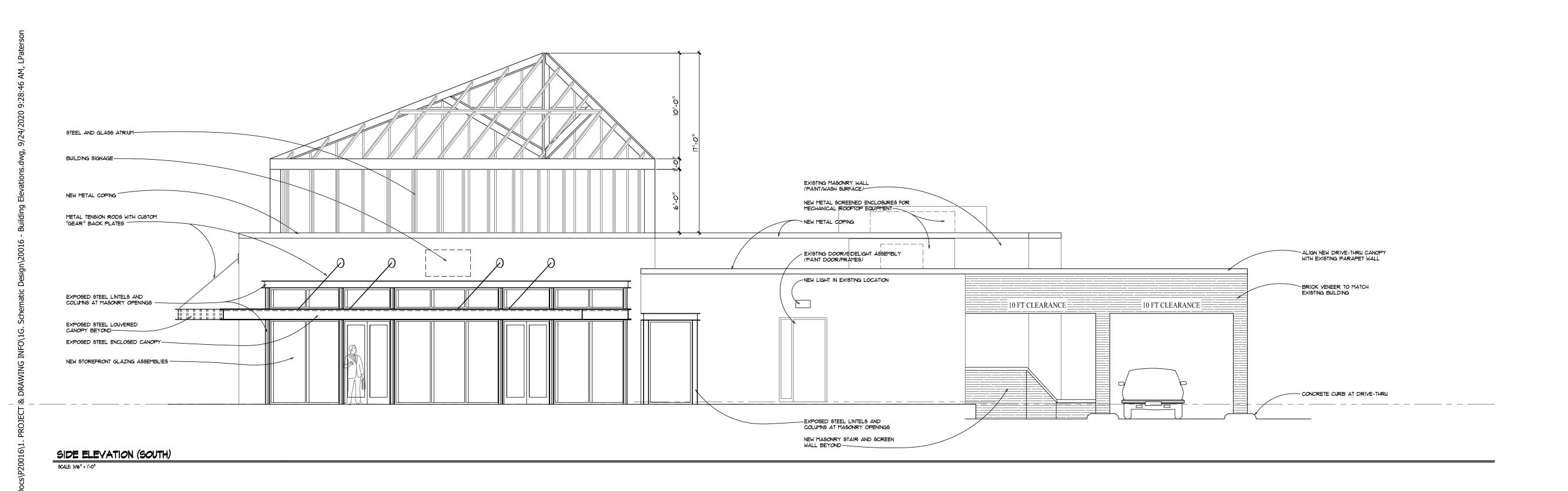
SCALE: 3/6" = 1'-0"





REAR ELEVATION (EAST)

SCALE: 3/16" = 1¹-0"



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2

ROBERT G. CLARKE ARCHITECT

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SK4







SOUTHEAST 3D MODEL VIEW





NORTHWEST 3D MODEL VIEW
NO SCALE