### **ENGINEER/SURVEYOR**



LAND DEVELOPMENT SERVICES

THE UMLOR GROUP 49287 WEST ROAD WIXOM, MI 48393 FAX: (866) 690-4307 WEB: www.umlorgroup.com

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### **DEVELOPER/APPLICANT**

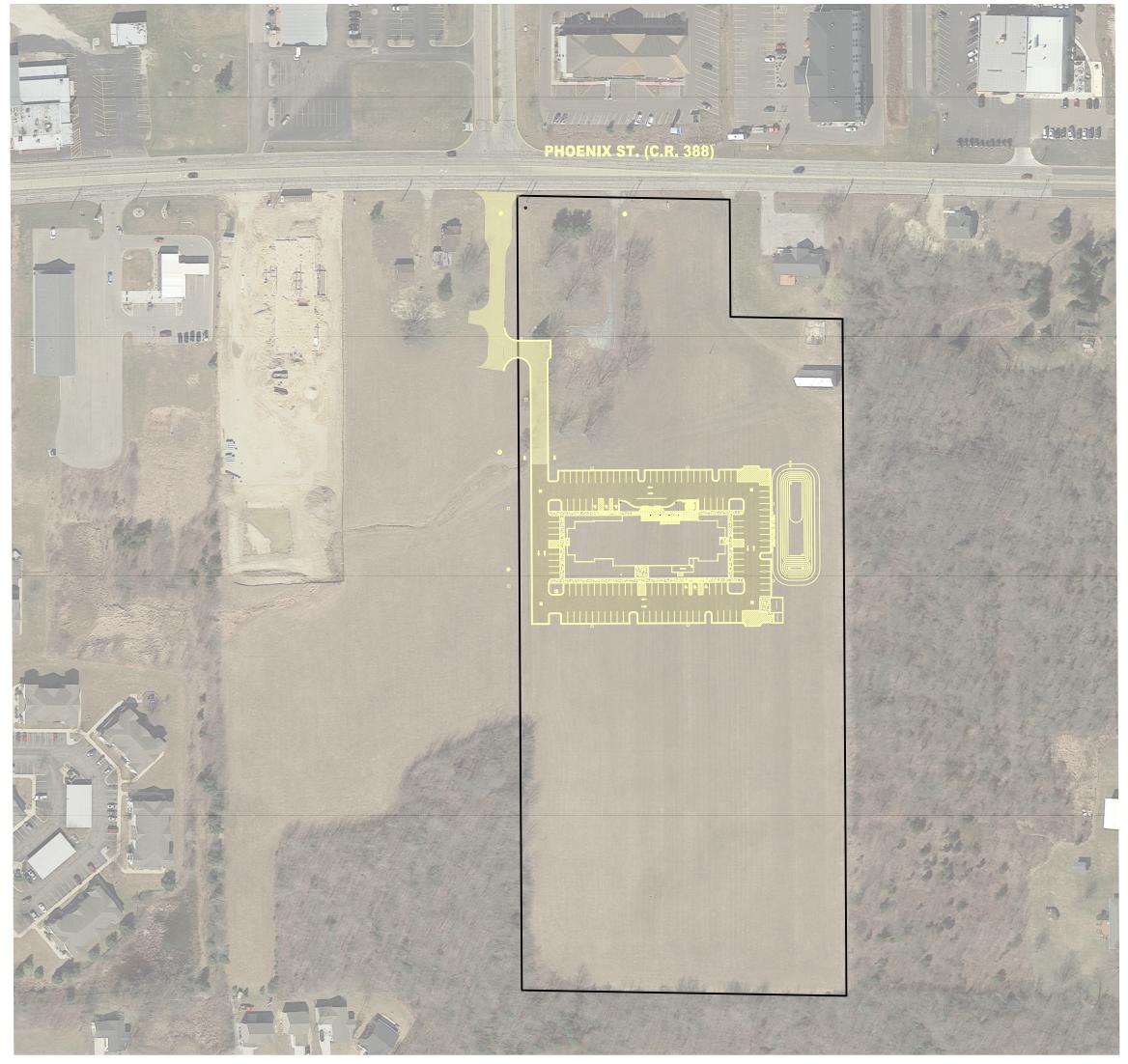
29870 MIDDLEBELT RD. FARMINGTON HILLS, MI 48334 PHONE: (248) 862-2844 X 102 EMAIL: SLY@PINNACLEPMG.COM

# **REQUIRED PERMITS**

VAN BUREN COUNTY DRAIN COMMISSION SESC PERMIT VAN BUREN COUNTY ROAD COMMISSION RIGHT-OF-WAY PERMIT EGLE ACT 399 PERMIT

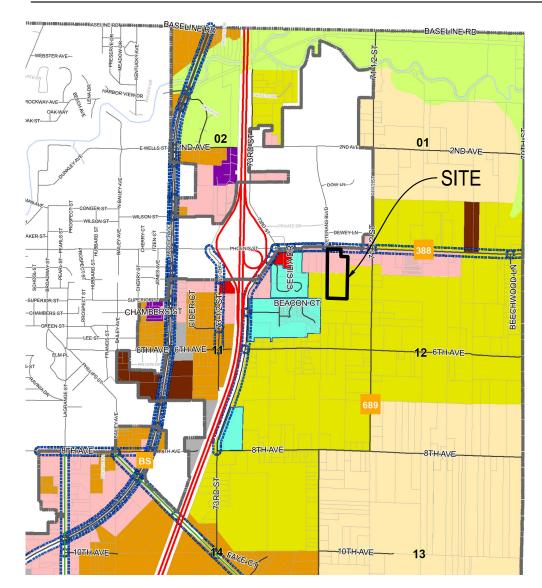
# SITE PLAN SOUTH HAVEN HOTEL

SECTION 12, TOWN 1 SOUTH, RANGE 17 WEST SOUTH HAVEN TOWNSHIP, VAN BUREN COUNTY, MICHIGAN



SITE MAP

### SOUTH HAVEN TOWNSHIP ZONING MAP & LEGEND



ZONED: CSC: COMMUNITY SERVICE COMMERCIAL MDR: MEDIUM DENSITY RESIDENTIAL

- FUTURE LAND USE PER THE 2018 MASTER PLAN:
- MULTI-FAMILY / ATTACHED RESIDENTIAL / RESORT

### South Haven Twp. Zoning, 2021

(rco) RESIDENTIAL COMMERCIAL OVERLAY (rd) RESOURCE DEVELOPMENT (nsc) NEIGHBORHOOD SERVICE COMMERCIAL (mfr) MULTI-FAMILY RESIDENTIAL

(csc) COMMUNITY SERVICE COMMERCIAL (hsc) HIGHWAY SERVICE COMMERCIAL (hc) HEAVY COMMERCIAL

(ldr) LOW DENSITY RESIDENTIAL (mdr) MEDIUM DENSITY RESIDENTIAL (hdr) HIGH DENSITY RESIDENTIAL (mhp-sup) MOBILE HOME/SPECIAL USE PERMIT (pud) PLANNED UNIT DEVELOPMENT (ar) AGRICULTURE/ RESIDENTIAL

SCALE: 1" = 150'

**LEGAL DESCRIPTION** 

(PER ALTA COMMITMENT FOR TITLE INSURANCE, BY FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NO. VT420455, DATED SEPTEMBER 14, 2023 AT 8:00 A.M.)

LAND SITUATED IN THE TOWNSHIP OF SOUTH HAVEN, COUNTY OF VAN BUREN, STATE OF MICHIGAN, MORE PARTICULARLY DESCRIBED AS:

THE WEST 20.91 ACRES OF THE NORTHWEST 1/4 OF

THE NORTHWEST 1/4 OF SECTION 12, TOWN 1

SOUTH, RANGE 17 WEST, SOUTH HAVEN TOWNSHIP, VAN BUREN COUNTY, MICHIGAN, EXCEPT THE WEST 5 ACRES; ALSO EXCEPT COMMENCING AT THE NORTHEAST CORNER OF THE ABOVE DESCRIBED PROPERTY; THENCE WEST ON THE NORTH SECTION LINE 11 RODS; THENCE SOUTH 423 FEET; THENCE EAST 11 RODS; THENCE NORTH 423 FEET TO THE PLACE OF BEGINNING, ALSO, BEGINNING ON THE NORTH LINE OF SAID SECTION 12 165.15 FEET EAST OF THE NORTHWEST SECTION CORNER; THENCE EAST ON THE NORTH SECTION LINE 344.15 FEET; THENCE SOUTH 01°22'55" EAST 423 FEET TO THE TRUE PLACE OF BEGINNING; THENCE EAST 181.5 FEET; THENCE NORTH 01°22'55" WEST 200 FEET; THENCE WEST 181.5 FEET; THENCE SOUTH 01°22'55" EAST TO TRUE PLACE OF

SUBJECT TO AND INCLUDING A PERMANENT EASEMENT AND RIGHT-OF-WAY BEGINNING 509.27 FEET EAST OF THE NORTHWEST CORNER OF SECTION 12, TOWN 1 SOUTH, RANGE 17 WEST; THENCE SOUTH 423 FEET; THENCE WEST 33 FEET; THENCE NORTH 423 FEET; THENCE EAST 33 FEET TO THE PLACE OF BEGINNING.

BEGINNING.

# AS SURVEYED LEGAL DESCRIPTION

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 12, THENCE ALONG THE NORTH LINE OF SAID SECTION AND THE CENTER LINE OF PHOENIX STREET/CR 388 (66' WIDE - PUBLIC), S87°45'50"E, 165.20 FEET TO THE POINT OF BEGINNING OF SAID PARCEL; THENCE CONTINUING ALONG SAID NORTH LINE AND SAID CENTER LINE, S87°45'50"E, 343.93 FEET; THENCE S00°51'15"W, 222.85 FEET; THENCE S87°45'50"E, 181.33 FEET; THENCE S00°51'15"W, 1095.40 FEET TO A POINT ON THE EAST & WEST 1/8 LINE OF SAID SECTION 12; THENCE ALONG SAID EAST & WEST 1/8 LINE, N87°49'19"W, 525.17 FEET; THENCE NO0°51'02"E, 1318.79 FEET TO THE POINT OF BEGINNING OF SAID PARCEL.

CONTAINING 651,916 SQ FT OR 14.97 ACRES OF LAND, MORE OR LESS.

COMMONLY KNOWN AS 71751 PHOENIX ST / CR 388, SOUTH HAVEN, MI 49090 TAX PARCEL #80-17-012-047-01

# S DEWEY LN.

UNDERGROUND UTILITIES. **VICINITY MAP** SCALE: 1" = 1000'±

# **SHEET INDEX**

TOPOGRAPHIC SURVEY & DEMOLITION PLAN SITE PLAN UTILITY PLAN GRADING PLAN

### **REFERENCES**

ARCHITECTURAL PLAN LANDSCAPE PLAN PHOTOMETRIC PLAN SOUTH HAVEN TWP STANDARD DETAILS

A PARCEL OF LAND LOCATED IN THE NORTHWEST 1/4 OF SECTION 12, TOWN 1 SOUTH, RANGE 17 WEST, SOUTH HAVEN TOWNSHIP, VAN BUREN COUNTY, MICHIGAN, IS DESCRIBED AS:

ONSTRUCTION SITE SAFETY IS

now what's **below**. Call before you did

THE OWNER OR ITS REPRESENTATI

THE CONTRACTOR SHALL DETERM THE EXACT LOCATION OF ALL EXISTIN UTILITIES BEFORE COMMENCING WOF AND AGREES TO BE FULLY RESPONSI

CONTRACTOR'S FAILURE TO EXAC OCATE AND PRESERVE ANY AND

NEITHER THE OWNER NOR THE ENGINE SHALL BE EXPECTED TO ASSUME WORK, OF PERSONS ENGAGED IN 1 WORK, OF ANY NEARBY STRUCTURES OF ANY OTHER PERSONS.

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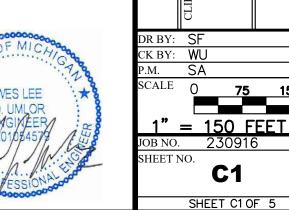
BENCH TIE IN SIGN BASE

BENCH TIE IN UPOLE

ELEV= 653.33

**BENCHMARKS:** 





SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
%. 'S		(11)	EX. STEAM MANHOLE
6,5	EX. SPOT ELEVATION	STEAM	EX. STEAM PIPE
×		———UNK————	EX. UNKNOWN UNDERGROUND
-652-	EX. CONTOUR	———UF———	EX. UNDERGROUND FIBER
	EX. © DITCH	UC	EX. UNDERGROUND CABLE
	EX. WATER MAIN	——————————————————————————————————————	EX. OVERHEAD TELEPHONE
⊏W⊃ W	EX. WATER METER	OHC	EX. OVERHEAD CABLE TV EX. OVERHEAD FIBER
	EX. WATER VALVE		EX. COMMUNICATION RISER
<b>\$</b>	EX. HYDRANT EX. WATER MANHOLE	CH	EX. COMMUNICATION HANDHOLE
	EX. FRESHWATER WELL		EX. UTILITY POLE
	EX. GATE VALVE IN WELL		EX. GUY ANCHOR
STM	EX. STORM SEWER	×	EX. LIGHT POLE
СВ	EX. STORM INLET/CATCH BASIN	<del>~</del>	EX. SIGN
©B	EX. ROUND STORM CATCH BASIN	<u>MB</u> (	EX. MAILBOX
(D)	EX. STORM MANHOLE	E S	
	EX. STORM END SECTION	_	EX. FLAGPOLE
(	EX. STORM CULVERT	0	EX. UNKNOWN MANHOLE
—— SAN——————————————————————————————————	EX. SANITARY SEWER EX. COMBINED SEWER		EX. MONITORING WELL
S	EX. SANITARY MANHOLE		EX. PROPERTY LINE
©	EX. COMBINED MANHOLE	——R/W	— EX. RIGHT-OF-WAY LINE
<b>□</b>	EX. CLEAN OUT EX. SANITARY VENT		— EX. SECTION LINE
— GAS———	EX. UNDERGROUND GAS	-	— EX. PARCELS
<sub>S</sub>	EX. GAS VALVE		— EX. EASEMENT
G	EX. GAS METER		— EX. CENTERLINE
©	EX. GAS MANHOLE		— EX. WETLAND LIMITS — EX. CURR/CUTTER
UT	EX. UNDERGROUND TELEPHONE	//	== EX. CURB/GUTTER 
	EX. TELEPHONE MANHOLE		— EX. GUARDRAIL
T	EX. TELEPHONE RISER	<b>@</b>	FOUND IRON
—UE	EX. UNDERGROUND ELECTRIC EX. ELECTRIC MANHOLE	PK ●	FOUND PK NAIL
© E	EX. ELECTRIC MANHOLE EX. ELECTRIC RISER	*** (9)	FOUND CONC. MONUMENT
TRANS	EX. ELECTRIC TRANSFORMER	<u></u>	SET IRON ROD
TE.	EX. ELECTRIC METER	→	SECTION CORNER
		0	POST
AC	EX. AIR CONDITIONER	(D)	BOLLARD
<b>(1)</b>	EX. PUBLIC LIGHTING MH	(R)	RECORDED BEARING MEASURED BEARING
—— PLD————	EX. PUBLIC LIGHTING ELEC	(M)	
— OHE———	EX. OVERHEAD ELECTRIC EX. WATER MARKER	(·) { \( \frac{1}{2} \) \( \frac{1} \) \( \frac{1}{2} \) \( \frac{1}{2} \) \(	EX. TREE (DECIDUOUS/CONIFER
Ğ	EX. WATER MARKER EX. GAS MARKER	.~~~	EX. TREELINE
Ě	EX. ELEC. MARKER		EX. ASPHALT
$\overline{\bigvee}$	EX. TELE. MARKER	· · · · · · · · · · · · · · · · · · ·	EX. CONCRETE
Š	EX. SAN. MARKER		EX. GRAVEL

(PER SOUTH HAVEN TOWNSHIP ZONING MAP - LAST AMENDED 10/13/21)

THE NORTH PART OF THE SUBJECT PARCEL IS ZONED "csc" - COMMUNITY SERVICE COMMERCIAL. THE SOUTH PART OF THE SUBJECT PARCEL IS ZONED "mdr" — MEDIUM DENSITY RESIDENTIAL.

### "cdc" ZONING

(PER SOUTH HAVEN TOWNSHIP ZONING ORDINANCE SEC. 11.04)

MINIMUM LOT AREA (NON-AGRICULTURAL):

WITH PUBLIC OR COMMON SANITARY SEWER AND WATER: 10,000 SQUARE FEET EXCLUDING AREAS SUBJECT TO EASEMENTS WITH ON-SITE WATER SUPPLY AND/OR WASTE WATER DISPOSALAS PERMITTED BY THE COUNTY HEALTH DEPARTMENT: ONE (1) ACRE EXCLUDING AREAS SUBJECT TO EASEMENTS

MINIMUM LOT WIDTH: FOR LOTS FRONTING ON M-43, M-140, BLUE STAR OR PHOENIX: 330 FEET

FOR LOTS FRONTING ALL OTHER ROADS OR FOR LOTS WITH SHARED DRIVEWAYS: 150 FEET AT THE BUILDING SETBACK LINE

FOR LOTS NOT SERVED BY PUBLIC/COMMON SANITARY SEWER AND/OR WATER FOR LOTS FRONTING ALL OTHER ROADS OR FOR LOTS WITH SHARED DRIVEWAYS: 80 FEET AT HE BUILDING SETBACK LINE FOR LOTS SERVED BY PUBLIC/COMMON SANITARY SEWER AND WATER

MINIMUM FRONT YARD: FROM A STATE HIGHWAY OR C.R. 388: 50 FEET FROM THE RIGHT-OF-WAY LINE

FROM BLUE STAR HIGHWAY: 110 FEET FROM CENTERLINE

FROM ANY OTHER COUNTY ROAD: 35 FEET FROM THE RIGHT-OF-WAY LINE FROM ANY PRIVATE ROAD: 35 FEET OR AS APPROVED BY THE TOWNSHIP BOARD

MINIMUM SIDE YARDS:

10 FEET ON ONE SIDE, BUT A MINIMUM TOTAL OF 25 FEET FOR BOTH SIDES, EXCEPT WHERE A SIDE YARD ABUTS A ROAD

RIGHT-OF-WAY, IN WHICH CASE THE FRONT YARD SETBACK IS REQUIRED. MINIMUM REAR YARD: 50 FEET FOR PRINCIPLE STRUCTURES, 15 FEET FOR ACCESSORY BUILDINGS. CORNER LOTS DO NOT HAVE A

MINIMUM WATERFRONT YARD: 50 FEET FROM THE SHORE OF A LAKE OR POND, OR CENTERLINE OF A STREAM, BUT NOT WITHIN A

FLOOD HAZARD AREA EXCEPT AS PROVIDED BY LAW. MAXIMUM HEIGHT LIMIT: ALL STRUCTURES ARE SUBJECT TO ARTICLE XIVA AIRPORT OVERLAY ZONE

50 FEET FOR HOTELS WITH 26-FOOT WIDE SETBACKS ON ALL SIDES WITH PAVING TO SUPPORT 75,000 POUNDS FOR FIRE APPARATUS.

WIND ENERGY GENERATORS: SUBJECT TO ARTICLE XV SPECIAL USES

MAXIMUM LOT COVERAGE: 75 PERCENT

### "mdr" ZONING

(PER SOUTH HAVEN TOWNSHIP ZONING ORDINANCE SEC. 6.04)

MINIMUM LOT AREA: (SINGLE AND DUPLEX HOUSING)

15,000 SQUARE FEET WITH PUBLIC OR COMMON SEWER AND WATER. 1 ACRE ON LOTS NOT SERVED BY PUBLIC OR COMMON WATER AND SEWER.

MINIMUM LOT WIDTH:

90 FEET ON LOTS WITH WATER AND SEWER.

150 FEET ON LOTS WITHOUT PUBLIC WATER AND SEWER AVAILABILITY. PARCELS FRONTING ON M-43, M-140, AND CR-388 (PHOENIX ROAD): 330 FEET

MINIMUM WIDTH, EXCEPT WHERE AN EASEMENT FOR INGRESS AND EGRESS IS RECORDED TO/FROM ADJACENT PARCELS, THEN AS ABOVE.

MINIMUM FRONT YARD:

FOR STATE HWY. AND CR 388: 50 FEET MINIMUM FROM RIGHT-OF-WAY LINE.

FOR BLUE STAR HWY OR RUGGLES: 110 FEET FROM THE CENTER LINE ALL OTHER COUNTY ROADS: 35 FEET FROM THE RIGHT OF WAY LINE

PRIVATE ROADS: 35 FEET FROM RIGHT OF WAY LINE OR AS APPROVED BY TOWNSHIP BOARD

MINIMUM SIDE YARD: 10 FEET MINIMUM FOR EACH SIDE YARD. 15 FEET FOR RESIDENTIAL ACCESSORY BUILDINGS. PARCELS WITH SIDE-YARDS FRONTING ANY STREET OR ROAD ARE SUBJECT TO THE FRONTYARD SETBACK FOR THAT SIDE

MINIMUM WATERFRONT SETBACK: 50 FEET MINIMUM FROM ESTABLISHED SHORELINES FOR LAKES AND PONDS, AND FROM CENTERLINE OF STREAMS

MINIMUM REAR YARD (CORNER LOTS HAVE NO REAR YARD): 50 FEET MINIMUM FOR PRINCIPLE BUILDING.

15 FEET FOR RESIDENTIAL ACCESSORY BUILDINGS

MINIMUM DWELLING FLOOR AREA: MINIMUM FLOOR AREA OF 680 SQUARE FEET FOR EACH DWELLING UNIT. HEIGHT LIMITATIONS:

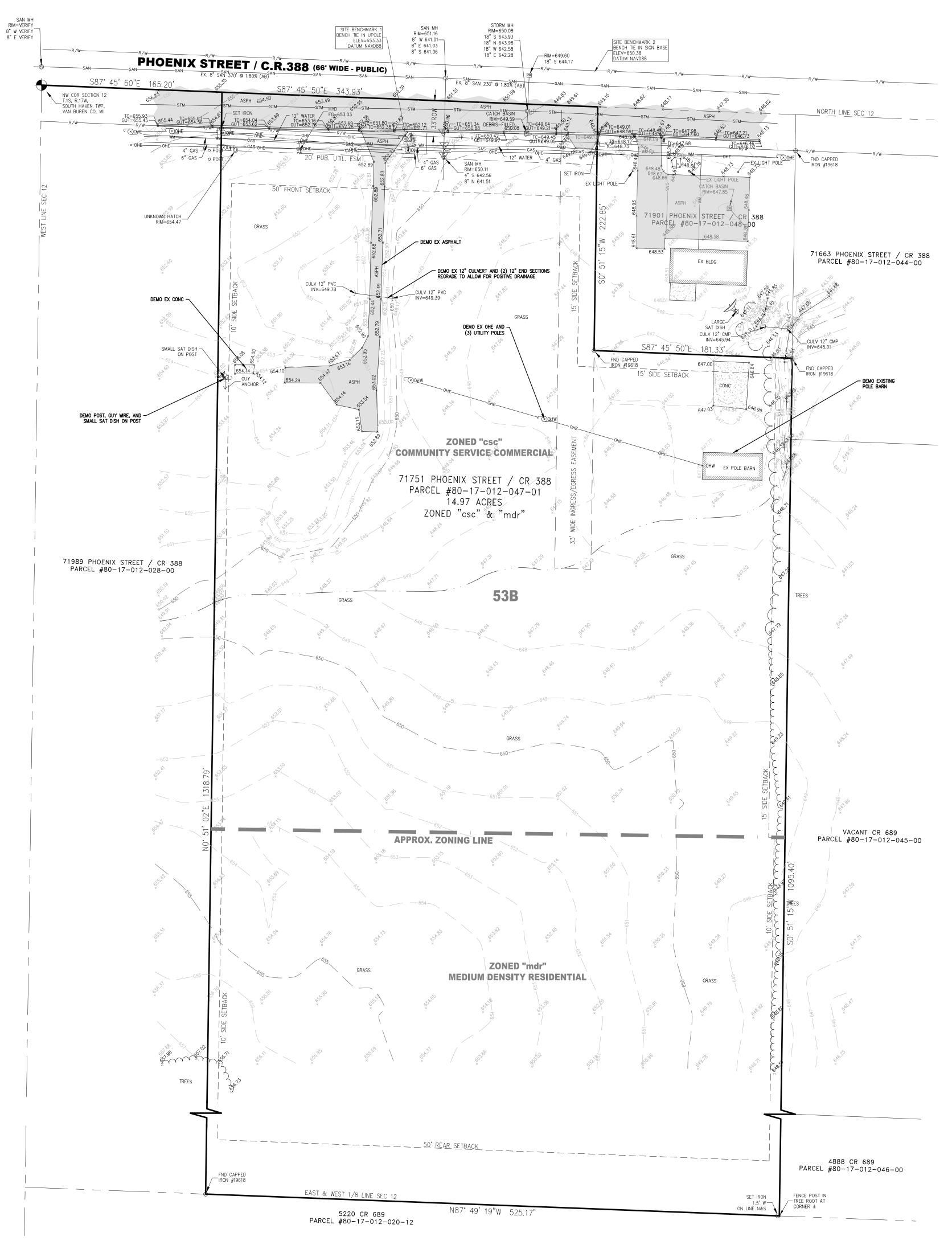
35 FEET MAXIMUM FOR ALL RESIDENTIAL STRUCTURES.

25 FEET MAXIMUM FOR ALL RESIDENTIAL RELATED STRUCTURES.

MAXIMUM LOT COVERAGE: 30 PERCENT MAXIMUM

### **SOILS MAP LEGEND**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
53B	Capac loam, Lake Michigan lobe, 0 to 4 percent slopes	15.0	100.0%
Totals for Area of Interest		15.0	100.0%



### **LEGAL DESCRIPTION**

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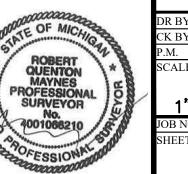
COMMONLY KNOWN AS 71751 PHOENIX ST / CR 388, SOUTH HAVEN, MI 49090 TAX PARCEL #80-17-012-047-01

# **BENCHMARKS:**

(NAVD 88 DATUM) BENCH TIE IN UPOLE

ELEV= 653.33

<u>BM #2</u> BENCH TIE IN SIGN BASE ELEV=650.38



INDERGROUND UTILITIES ARE SHOW I APPROXIMATE WAY ONLY AND H IE OWNER OR ITS REPRESENTATI IE CONTRACTOR SHALL DETERM THE EXACT LOCATION OF ALL EXISTIN JTILITIES BEFORE COMMENCING WO AND AGREES TO BE FULLY RESPONSIB ONTRACTOR'S FAILURE TO EXAC OCATE AND PRESERVE ANY AND

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THER THE OWNER NOR THE ENGINE IALL BE EXPECTED TO ASSUME A ORK, OF PERSONS ENGAGED IN T VORK, OF ANY NEARBY STRUCTURES, ( OF ANY OTHER PERSONS.

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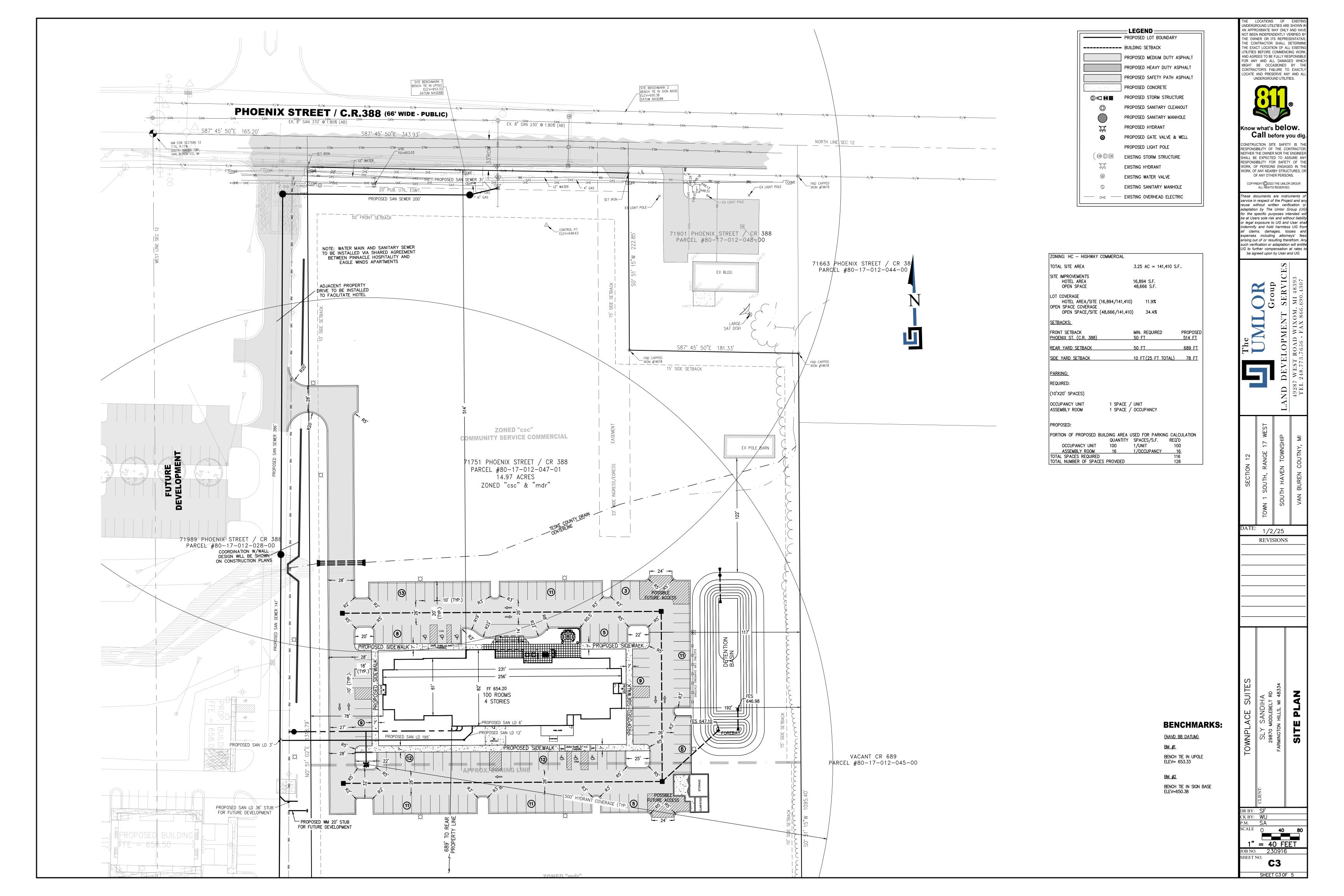
use without written verification aptation by The Umlor Group (U or the specific purposes intended e at Users sole risk and without liabil r legal exposure to UG and User sh ising out of or resulting therefrom. A ch verification or adaptation will en

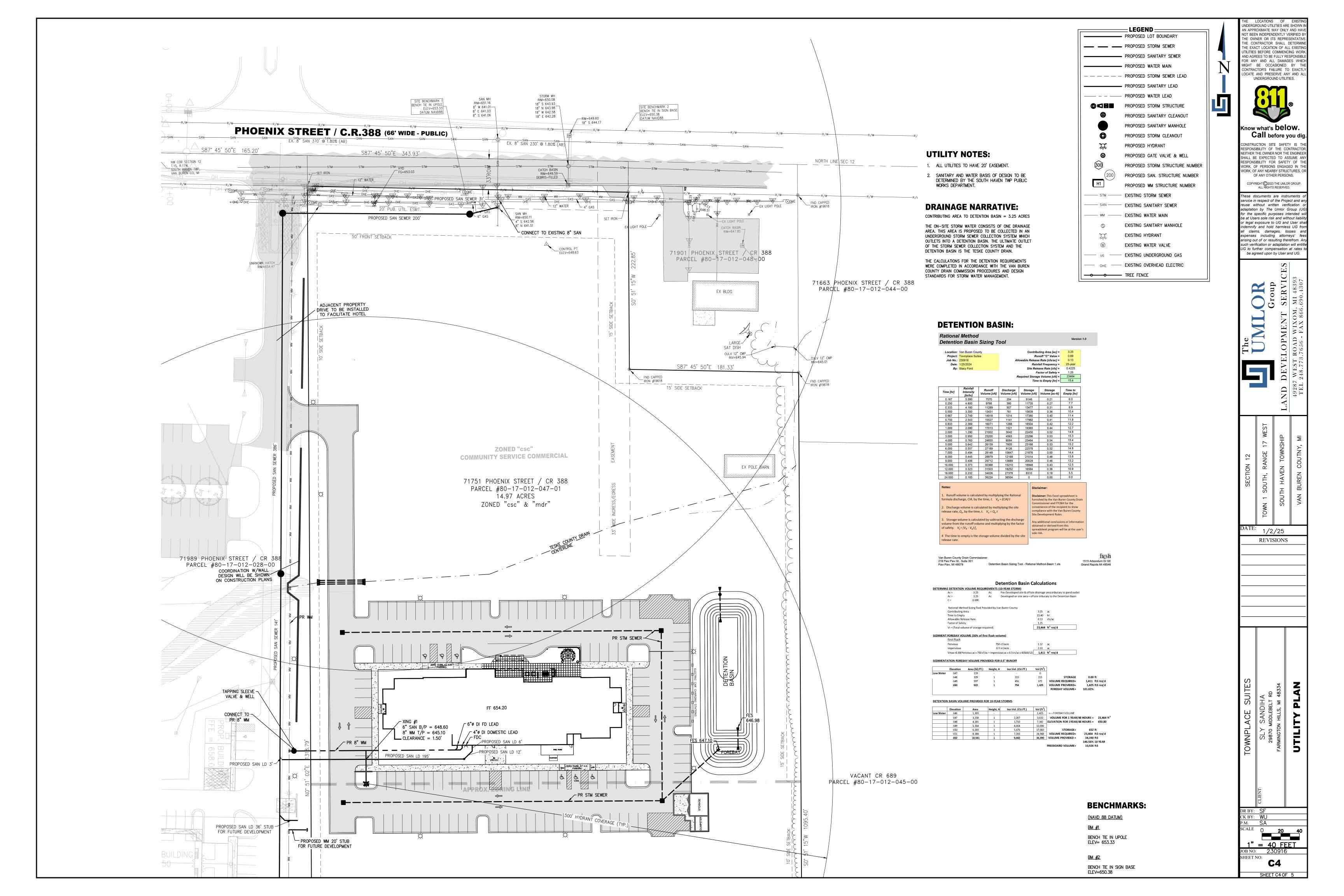
be agreed upon by User and UG.

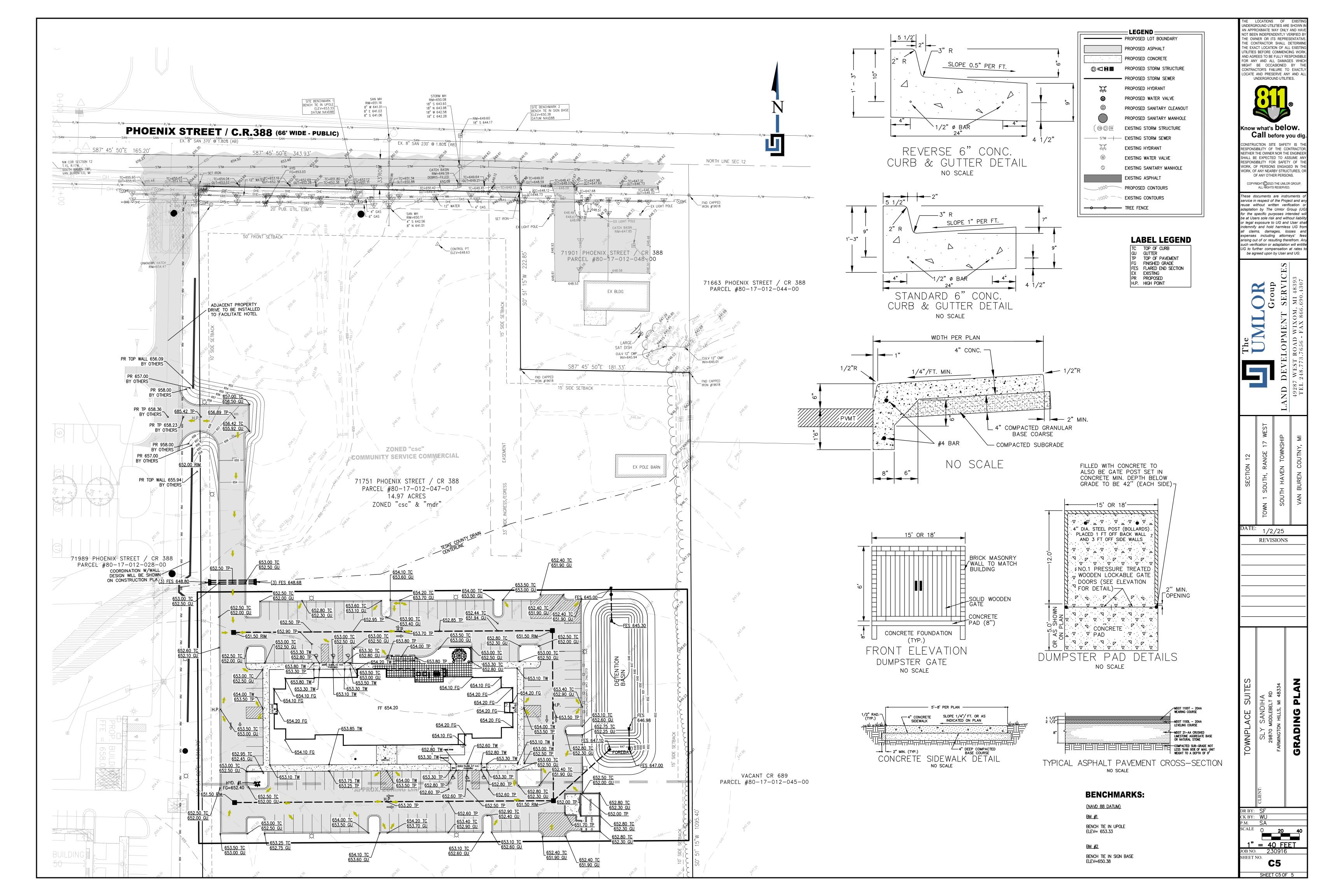
DATE: 1/2/25 REVISIONS

= 50 FEET

SHEET C2 OF 5

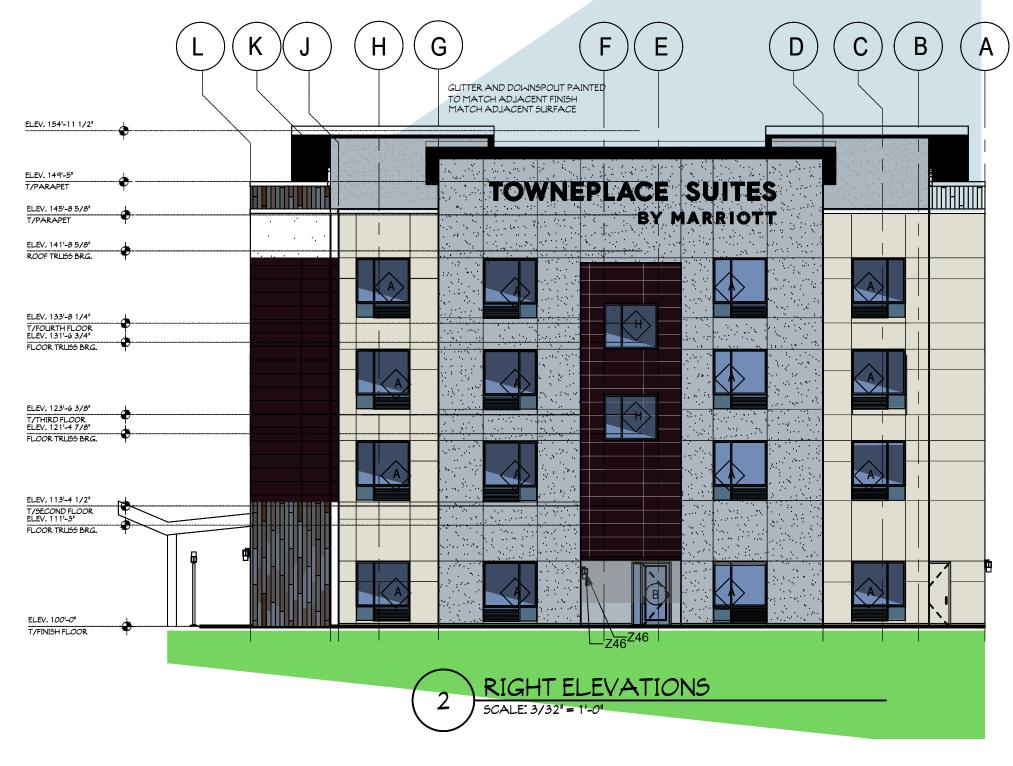


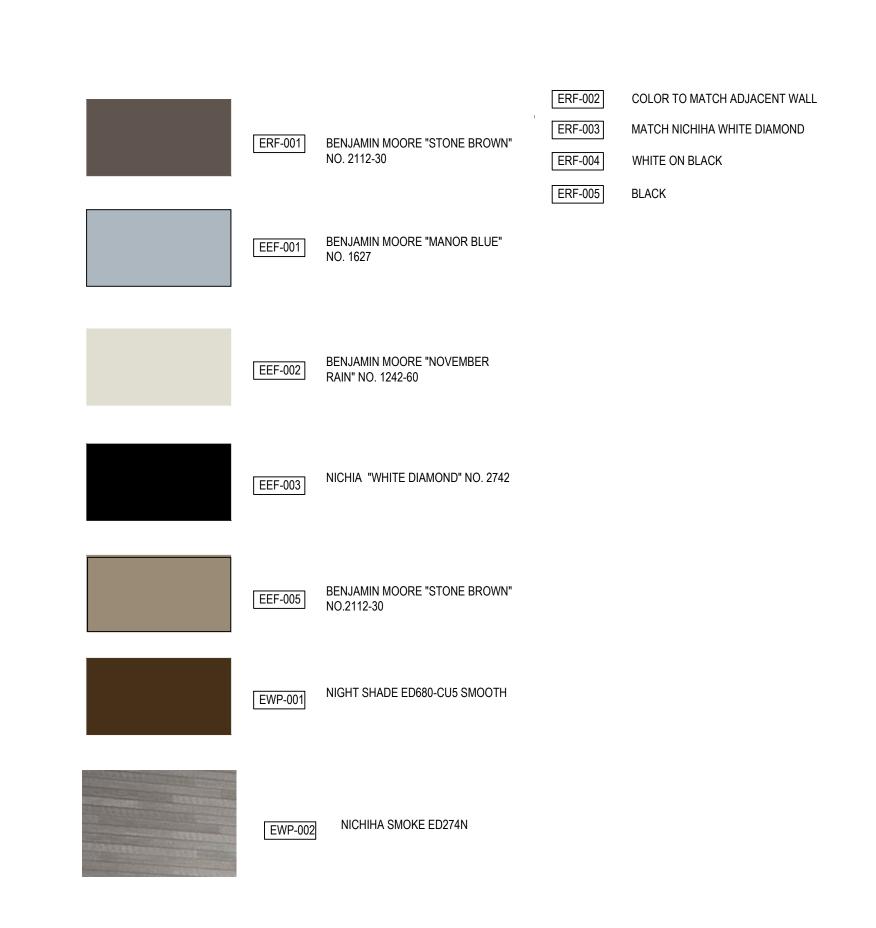












MAUST ARCHITECTURAL SERVICES DIVISION OF L.E.M., INC. 112 NORTH MAIN STREET GOSHEN, INDIANA 46526

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\* Architects \* Planners \* Consultants \* Construction Mgmt.
\* Rule 5 and MS4 Filing

GENERAL NOTES FROM DIMENSIONED PLANS. PHONE (574) 537-8500 FAX (574) 537-0808

-ALTHOUGH DRAWINGS ARE DRAWN TO SCALE, THE ACCURACY OF THE DRAWING CANNOT BE GUARANTEED DUE TO DISCREPANCIES IN THE METHODS OF REPRODUCTION. DIMENSIONS SHOULD BE DERIVED ALL DIMENSIONS, ROUGH OPENING SIZES, AND ELEVATION MARKERS MUST BE FIELD VERIFIED BY THE GENERAL CONTRACTOR, MAUST ARCHITECTURAL SERVICES SHALL NOT BE HELD RESPONSIBLE FOR ANY DIMENSIONAL DISCREPANCIES WHICH HAVE NOT BEEN BROUGHT TO THEIR ATTENTION PRIOR TO CONSTRUCTION.

REVISIONS:

TOWNEPLACE SUITES BY MARRIOTT

JOB NO.: MAS-23-145 BUILDING ELEVATIONS SCHEME GREY (RENDERED)

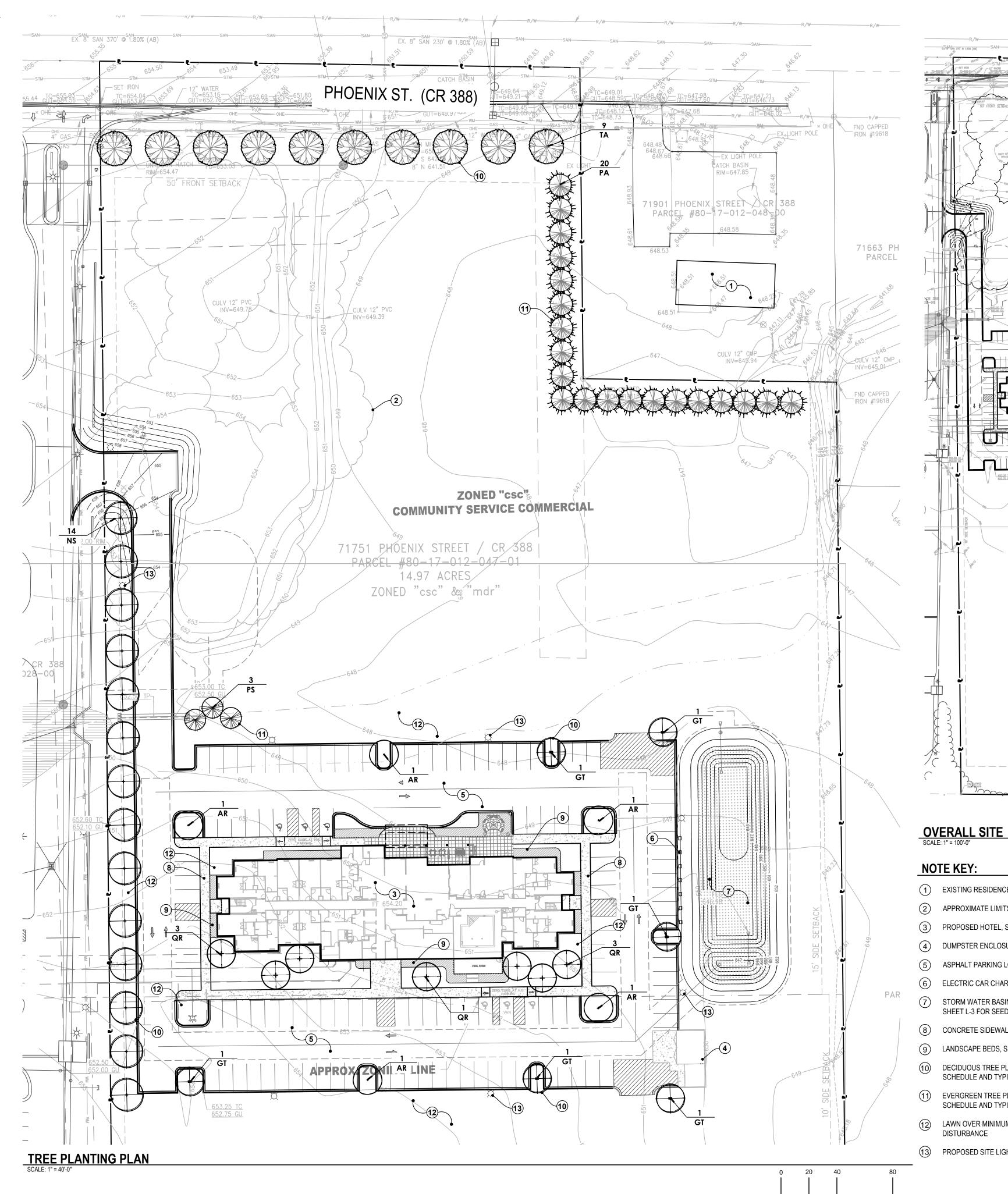
DATE: 12/31/23

SHEET SIZE 24x36 FLINT, MICHIGAN



### LANDSCAPE NOTES

- 1. Landscape Contractor shall visit the site, inspect existing conditions and review proposed planting and related work. In case of discrepancy between the plan and the plant list, the plan shall 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 interruption of service shall be the responsibility of the contractor.
- 3. The contractor shall coordinate all related activities with other trades, and shall report any unacceptable site conditions to the Landscape Architect or Owner's Representative prior to commencement of operations.
- 4. Plants shall be full, well branched, and in a healthy vigorous growing condition. All minimum planting sizes specified on the Project Plans shall be at the time of planting. All plant material shall be free of disease and insects and shall conform to the most current edition of the American Standard of Nursery Stock of the American Association of Nurserymen.
- All landscape materials shall be as specified on the Project Plans or approved equal. Substitutions shall not be made without prior approval from the Project Landscape Architect and receipt of the Owner's Authorization.
- 6. All landscape plantings shall be planted and maintained in a healthy condition and shall be guaranteed by the Landscape Contractor for a minimum period of 1 year from the time of planting. Any plantings that show a 25% dieback or greater, or become diseased during the guarantee period shall be removed and replaced by the Landscape Contractor at no additional cost to the Owner. The new plant material shall also be guaranteed for a period of one year.
- 7. All plant material shall be watered before and after planting operations are complete. Slow release fertilizer shall be added to the plant pits prior to being backfilled and shall be applied at the manufacturers recommended rates.
- 8. Excavations for container or balled plantings shall be no deeper than the root ball or container and shall be at least twice the diameter of the root ball or container. See planting details for notes on planting depth in relation to final grade.
- 9. Excavations for bare root plantings shall be no deeper than the longest roots and shall be at least twice the diameter of the root spread. See planting details for notes on planting depth in relation
- 10. The sides of planting excavations in heavy and/or wet soils shall be scarified with a rake, pick or shovel to eliminate glazing.
- 11. The Contractor shall provide clean backfill using a mixture of native on-site soil and an amended plant mix. The native on-site soil shall be screened and free of debris, foreign material and stones larger than 2" in diameter. The amended plant mix shall consist of 1/3 screened topsoil, 1/3 sand, and 1/3 compost, mixed well and spread to a depth as indicated on the planting details.
- 12. The Landscape Contractor shall stake and reinforce all trees to prevent wind damage. The Contractor shall be responsible for maintaining all plant material in an upright vertical position throughout the guarantee period.
- 13. The Landscape Contractor shall remove all tree reinforcement and stakes after one (1) growing
- 14. Landscape beds shall be separated from lawn areas as indicated on the Project Plans.
- 15. All plantings shall be mulched with natural double shredded hardwood bark. Mulch shall be spread uniformly throughout the landscape bed to a depth of 3" within tree and shrub beds and 2" deep within perennial beds. Mulch shall be free from debris, foreign material, and pieces of inconsistent size.
- 16. Lawn areas shall be established over a minimum 3" depth screened topsoil and either hydro-seed or sod as indicated on the Project Plans. The Landscape Contractor shall guarantee all lawn areas for a minimum period of 1 year from time of seeding. All lawn areas that do not take root, die, or become diseased during the guarantee period shall be re-seeded or sodded as appropriate by the Landscape Contractor at no cost to the Owner.
- 17. Topsoil shall be a dark, organic, natural surface soil free of clay lumps, peat, muck, subsoil, noxious weeds and other foreign material such as roots, sticks and rocks over 1" diameter. Topsoil shall not be frozen or muddy. All earthen areas to receive topsoil shall be finish graded and properly trimmed. Topsoil shall be spread on the prepared areas to a depth of 3". After spreading, any large clods and lumps of topsoil shall be broken up and pulverized. Stones and rocks over 1" in diameter, roots, and all foreign debris shall be raked up and disposed of by the Landscape Contractor. Seed and mulch shall be placed within 3 days of topsoil placement.
- 18. Seed mixture for lawn areas shall be as indicated on the plans or if no mixture is given, shall consist of 10% Kentucky Blue Grass, 20% Perennial Rye Grass, 30% Hard Fescue and 40% Creeping Red Fescue. Hydro-seed shall be placed within 3 days of topsoil placement and shall be placed to provide complete and uniform coverage. Fertilizer (10-10-10) shall be placed at 80 pounds per acre, hydro mulch at 1,200 pounds per acre and water at 500 gallons per acre unless otherwise specified by the Seed Distributor/Manufacturer. All over spray areas shall be properly cleaned and restored at no expense to the contract.
- 19. Storm water seed mixture shall be as indicated on the plans or if no mixture is given, shall be Stormwater Seed Mix by Cardno Native Plant Nursery or approved equal. Seed mixture shall be applied at 32.97 pounds per acre unless otherwise specified by the Manufacturer. Fertilizer and mulch shall be placed in accordance with the Manufacturer's specifications.
- 20. Seed and straw mulch may be substituted for hydro-seed when authorized by the Owner. Seed mixtures shall meet the requirements for lawn areas as outlined above. Seed shall be uniformly applied at a rate of 220 lbs per acre unless otherwise recommended by the seed Distributor/Manufacturer. Seed mixture shall be fertilized. Fertilizer shall be uniformly applied at of 240 pounds per acre of chemical fertilizer nutrients in equal portions (10-10-10) of Nitrogen, Phosphoric Acid and Potash.
- 21. All seeded areas with a slope greater than 1:4 shall be stabilized with erosion control blankets. Erosion control blankets shall consist of 100% straw fiber matrix with photo-degradable polypropylene netting and have a 12-month minimum longevity rating. Erosion control blankets shall be pinned with biodegradable pins and shall be installed in accordance with the Manufacturer's recommendations.
- 22. The Landscape Contractor shall be responsible for watering non-irrigated plantings and sod / seed areas during dry weather conditions throughout the guarantee period as necessary to promote growth and establishment.
- 23. Should an irrigation system be installed as a part of this project, all lawn and landscape areas, including landscape islands, within the limits of irrigation as depicted on the Landscape Plan, shall be irrigated. The Contractor shall submit an irrigation system design and shop drawings to the Landscape Architect and Owner's Representative for review and approval prior to installation. Irrigation systems shall be designed to utilize the minimum amount of water necessary to provide sufficient irrigation, satisfy the Local Municipal requirements and site conditions and shall include a rain sensor. A separate water meter shall be installed as a part of the irrigation system to allow for reduced rate metering by the Local Municipality and/or Water Authority. The Contractor shall be responsible for coordinating installation of irrigation lines, sleeves, plumbing connections, controls and appurtenances at the appropriate stages of construction. All existing irrigation lines and systems that are to remain that are cut, plugged, spliced, damaged and/or otherwise modified during demolition and/or construction activities shall be properly repaired, replaced, reconnected and/or adjusted as necessary to ensure proper operation.





Preliminary Site Plan Review 07.24.2024 Site Plan Review 01.08.2025 Revision

**TOWNPLACE SUITES HOTEL** 

71751 Phoenix St. (CR 388) Southhaven, Michigan

Project Sponsor: Mr. Sam Sandiha 29870 Middlebet Road Farmington Hills, MI 48334

Tree Planting Plan

1 EXISTING RESIDENCE - OFF SITE

(2) APPROXIMATE LIMITS OF EXISTING TREES

5220 CR 689 PARCEL #80-17-012-020-12

71751 PHOENIX STREET / CR 388

(3) PROPOSED HOTEL, SEE ARCHITECTURE

(4) DUMPSTER ENCLOSURE AND STORAGE BUILDING

(5) ASPHALT PARKING LOT, SEE CIVIL ENGINEERING DRAWINGS

(6) ELECTRIC CAR CHARGING STATIONS

(7) STORM WATER BASIN, SEE CIVIL ENGINEERING DRAWINGS AND SHEET L-3 FOR SEEDING REQUIREMENTS

(8) CONCRETE SIDEWALK, TYPICAL

(9) LANDSCAPE BEDS, SEE ENLARGEMENT SHEET L-2

(10) DECIDUOUS TREE PLANTING, SEE SHEET L-2 FOR PLANT

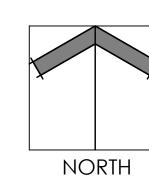
SCHEDULE AND TYPICAL DETAIL SHEET L-3 (11) EVERGREEN TREE PLANTING, SEE SHEET L-2 FOR PLANT

SCHEDULE AND TYPICAL DETAIL SHEET L-3

(12) LAWN OVER MINIMUM 3" DEPTH TOPSOIL TO LIMITS OF DISTURBANCE

(13) PROPOSED SITE LIGHTING, SEE PHOTOMETRIC PLAN

NOT FOR CONSTRUCTION



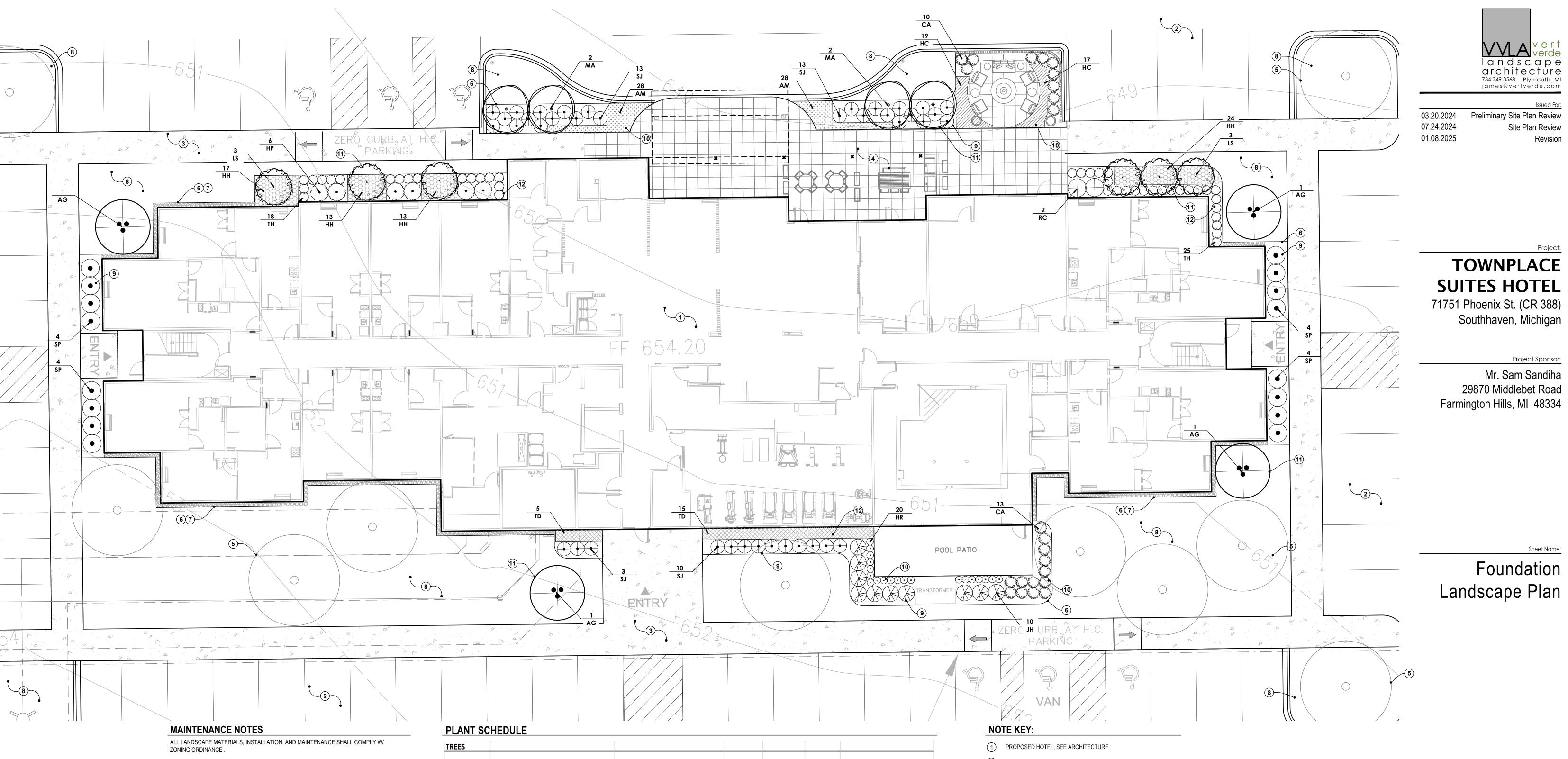
24.019 Sheet Number:

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02.2024

Scale:

**AS NOTED** 



ALL PLANT MATERIAL SHALL BE LOCALLY GROWN OR OF THIS NORTH MIDWEST AMERICAN REGION AND CONFORM TO THE CURRENT AAN STANDARDS. USE NO.1 GRADE PLANT MATERIAL.

ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY GROWING CONDITION FREE OF WEEDS AND DEBRIS WITH ONE CULTIVATION FOR WEED CONTROL PER MONTH DURING JUNE, JULY AND AUGUST. THIS ESTABLISHMENT PERIOD SHALL BE ONE (1) YEAR FROM THE DATE OF APPROVAL OF PLANTINGS BY THE TOWNSHIP. FAILING PLANT MATERIAL SHALL BE REPLACED WITHIN ONE YEAR.

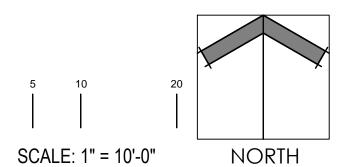
ALL TREE WRAP, STAKES AND GUY WIRES SHALL BE REMOVED AFTER ONE WINTER

<u> </u>	NI SC	HEDULE					
TREES							
QTY	SYM	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	ROOT	COMMENTS
4	AG	Amalanchier x g. 'Autumn Brilliance'	Autumn Brilliance Serviceberry	7'-8' ht.	as shown	B&B	Minimum 5 stems
6	LS	Liquidambar s. 'Slender Silhouette'	Slender Silhouette Sweetgum	2.5" cal.	as shown	B&B	Single straight trunk
4		Malus 'Adirondak'	Adirondak Crabapple	2.5 cal.	as shown	B&B	
5	MA AR	Acer r. 'October Glory'	October Glory Red Maple	2.5" cal.	as shown	B&B	Single straight trunk
6		•		2.5 cal. 2.5" cal.			Single straight trunk
20	GT PA	Gleditsia t. 'Skyline' Picea abies	Skyline Honeylocust Norway Spruce	2.5 cal. 7' ht.	as shown as shown	B&B B&B	Single straight trunk Unsheared, branched to ground
3	PS	Pinus strobus	White Pine	8' ht.	as shown	B&B	Unsheared, branched to ground
14				2.5" cal.		B&B	
7	NS	Nyssa sylvatica	Black Tupelo Red Oak		as shown		Single straight trunk
9	QR TA	Quercus rubra Tilia americana 'Redmond'	Red Oak Redmond American Basswood	2.5" cal. 2.5" cal.	as shown	B&B B&B	Single straight trunk
9	IA	Tilia americana Reamond	Redmond American Basswood	2.5 Cal.	as shown	D&D	Single straight trunk
SHRU	BS						
6	HP	Hydrangea p. 'Little Quick Fire'	Little Quick Fire Hydrangea	30" ht.	as shown	cont.	Well rooted
2	RC	Rhododendron c. 'Boursault'	Boursault Rhododendron	36" ht.	as shown	cont.	Well rooted
16	SP	Syringa p. 'Miss Kim'	Miss Kim Dwarf Korean Lilac	36" ht.	as shown	cont.	Well rooted
20	TD	Taxus x m. 'Densiformis'	Dense Yew	30" ht.	30" o.c.	cont.	Well rooted
39	SJ	Spirea japonica 'Neon Flash'	Neon Flash Spirea	24" ht.	as shown	cont.	Well rooted
10	JH	Juniperus c. 'Hetz Columnar'	Hetz Columnar Juniper	48" ht.	as shown	B&B	
43	TH	Taxus x m. 'Hicksii'	Hicks Yew	30" ht.	24" o.c.	B&B	Trim to Hedge
PEREN	INIALS						
67	НН	Hosta 'Halcyon'	Halcyon Hosta	#1	24" o.c.	cont.	Well rooted
56	AM	Allium 'Millenium'	Millenium Omamental Onion	#1	18" o.c.	cont.	Well rooted
36	HC	Heuchera 'Palace Purple'	Palace Purple Coralbells	#1	18" o.c.	cont.	Well rooted
23	CA	Calamagrostis a. Karl Foerster'	Karl Foerster Feather Reed Grass	#2	as shown	cont.	Well rooted
20	HR	Hemerocalis 'Happy Returns'	Happy Returns Daylily	#1	as shown	cont.	Well rooted

- (2) PROPOSED PARKING LOT, SEE CIVIL ENGINEERING DRAWINGS
- (3) PROPOSED CONCRETE SIDEWALK, TYPICAL
- (4) DECORATIVE PAVING PER HOTEL STANDARDS
- (5) PROPOSED CANOPY TREES, SEE SHEET L-1
- (6) METAL EDGING BETWEEN LAWN AND LANDSCAPE BEDS, TYPICAL
- (7) 12" WIDE x 4" DEPTH STONE MAINTENANCE STRIP OVER FABRIC
- 8 SODDED LAWN OVER MINIMUM 3" DEPTH TOPSOIL, SEE GENERAL LANDSCAPE NOTES SHEET L-1
- 9 SHRUB PLANTING, SEE TYPICAL DETAIL SHEET L-3
- 10 PERENNIAL / GROUNDCOVER PLANTING, SEE TYPICAL DETAIL SHEET L-3
- ORNAMENTAL TREE, SEE TYPICAL DETAIL SHEET L-3
- (12) EVERGREEN HEDGE PLANTING, SEE TYPICAL DETAIL SHEET L-3

# NOT FOR

NOT FOR	
CONSTRUCTION	



Project Number: 24.019 Sheet Number:

JG

Scale:

02.2024

As Noted

vertelandscape architecture 734.249.3568 Plymouth, Ml james@vertverde.com

Preliminary Site Plan Review

Site Plan Review

Project Sponsor:

Sheet Name:

Mr. Sam Sandiha

29870 Middlebet Road

Revision

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AS NOTED Scale:

Project Number: 24.019 Sheet Number:

Site Plan Review Revision

71751 Phoenix St. (CR 388) Southhaven, Michigan

29870 Middlebet Road Farmington Hills, MI 48334



JG JG 02.2024

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North American Green

Evansville, IN 47725

FAX: 812-867-0247

www.nagreen.com

1.5 lb/1000 ft<sup>2</sup> ( 0.73 kg/100 m<sup>2</sup>)

Unvegetated Shear Stress 1.75 lbs/ft² (84 Pa)
Unvegetated Velocity 6.00 ft/s (1.83 m/s)

Flow Depth Manning's n
≤ 0.50 ft (0.15 m) 0.055

0.50 - 2.0 ft 0.05 ≥ 2.0 ft (0.60 m) 0.02

approx. weight

108 ft (32.92 m) 96 lbs (43.54 kg) 192 yd² (165.5 m²)

Material and Performance Specification Sheet

S150 Erosion Control Blanket

The short-term double net erosion control blanket shall be a machine-produced mat of 100% agricultural straw with a functional longevity of up to 12

months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of

consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top and bottom sides with

a lightweight photodegradable polypropylene netting having an approximate 0.50 x 0.50 (1.27 x 1.27 cm) mesh. The blanket shall be sewn together

The S150 shall meet requirements established by the Erosion Control Technology Council (ECTC) Specification and the US Department of

Transportation, Federal Highway Administration's (FHWA) Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects, FP-03 Section 713.17 as a type 2.D Short-term Double Net Erosion Control Blanket.

The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches [5-12.5 cm] from the edge) as an

Top and Bottom nets, lightweight

108 ft (32.92 m) 40 lbs (18.14 kg) 80.0 yd<sup>2</sup> (66.9 m<sup>2</sup>)

0.36 in (9.14 mm)

9.8% 169.2 lbs/ft (2.51 kN/m)

17.2% 164.4 lbs/ft (2.44 kN/m)

on 1.50 inch (3.81 cm) centers with degradable thread.

\$150 is available in the following standard roll sizes:

135 ft (41.14 m)

60 yd² (50.16 m²)

ASTM D6525

ECTC Guidelines

ASTM D1117 ASTM 6475 ECTC Guidelines

ECTC Guideline:

ASTM D6818 ASTM D6818

ASTM D6818

Shear Resistance
ECTC Method 4 Top Soil, Fescue, 21 day 484% improvement of Germination incubation biomass

\* Bench Scale tests should not be used for design purposes

\*\* Soil Loss Ratio = Soil loss with Bare Soil/Soil Loss with RECP (soil loss is based on regression analysis)

30 lbs (13.6 kg)

Stiffness ASTM D1388
Light Penetration ECTC Guideline
Tensile Strength –MD ASTM D6818

ECTC Method 3 Shear at 0.50 inch soil loss

overlap guide for adjacent mats.

Width Length Welght ± 10% Area

Mass/Unit Area Swell

Ermrgent Wetland Seed Mix Botanical Name	Common Name	PLS Ounces/Acre
Permanent Grasses/Sedges/Rush	nes:	
Carex comosa	Bristly Sedge	2.50
Carex lacustris	Common Lake Sedge	0.25
Carex Iurida	Bottlebrush Sedge	4.00
Carex vulpinoidea	Browm Fox Sedge	6.00
Eleocharis ovata	Blunt Spike Rush	1.00
Juncus effusus	Common Rush	1.00
Leersia orzyoides	Rice Cut Grass	3.00
Scirpus acutus	Hard-Stemmed Bulrush	2.50
Scirpus pungens	Chairmaker's Rush	4.00
Scripus validus	Great Bulrush	6.00
	Tot	al 30.25
Temporary Cover:		
Avena saliva	Common Oat	360.00
Lolium multiflorum	Annual Rye	104.00
	Tot	al 464.00
Forbs:		
Asclepias incarnata	Swamp Milkweed	1.50
Alisma spp.	Water Plantain	2.00
Cephalanthus occidentalis	Button Bush	1.00
Decodon verticillatus	Swamp Loosestrife	1.25
Eupatorium maculatum	Spotted Joe-Pye Weed	0.50
Iris virqinica	Blue Flag Iris	6.00
Lobelia cardinalis	Cardinal Flower	0.25
Lobelia siphilitica	Great Blue Lobelia	1.50
Ludwigia alternifolia	Seedbox	0.25
Mimulus ringens	Monkey Flower	1.00
Peltandra virginica	Arrow Arum	16.00
Pontederia cordata	Pickerel Weed	10.00
Sagittaria latifolia	Broad-Leaf Arrowhead	2.00
Sparganium americanum	American Bur Reed	2.00
Sparganium eurycarpum	Common Bur Reed	4.00
Verbena hastata	Blue Vervain	1.00
TOTO OTTO TIGO LOLLO		

# SEED MIX NOTES

- The seed mixes shall be applied at the specified rate of for each mix. Must be installed to manufacturer specification and requirements.
- Seed to be covered with North American Green S150 or equivalent erosion control blanket installed to manufacturers specifications.

Seed Mix Available From: Cardno JFNew, Inc.

128 Sunset Drive Walkerton, IN 46574 574-586-2412

a mower cannot be set high enough, a string trimmer may be used.

### NATIVE SEEDING MAINTENANCE

During the first growing season, native areas should be mowed a minimum of four times to height of about 4"-6" when the growth reaches 10"-12". Selective herbicide applications or hand pulling may be needed to control unwanted weed populations. If

During the second growing season, native areas should be mowed a minimum of two times to height of about 8" when the growth reaches 10"-18". Selective herbicide applications or hand pulling may be needed to control unwanted weed populations.

By the second growing season it should be apparent if some areas need reseeding. Reseed or overseed as needed to provide for full coverage.

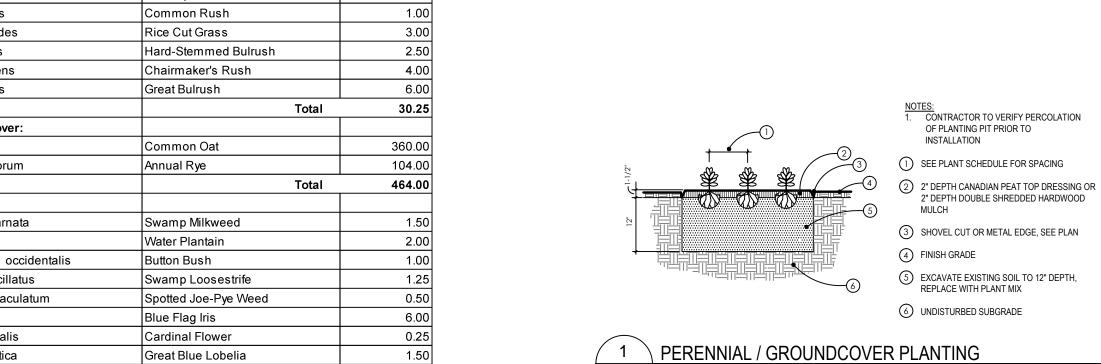
Long term management my include prescribed burning, mowing, hand pulling, and selective herbicide applications. if burning is not allowed or feasible, the planting may be mowed to a short height and the clippings removed in the early spring before

## TURF GRASS MIX - RHINO SEED

Sunny Mix 20% KY. BLUEGRASS 20% CR. RED FESCUE 20% TURF TYPE PER. RYE 20% TURF TYPE PER. RYE. 10% ELITE KY. BLUE 10% ELITE KY. BLUE

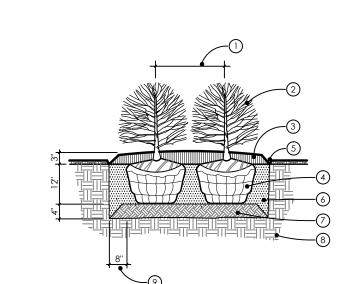
Spread at a rate of 7 lbs./1000 sf. All disturbed areas not specified to receive sod

No noxious weed seeds permitted.



58.25

Total

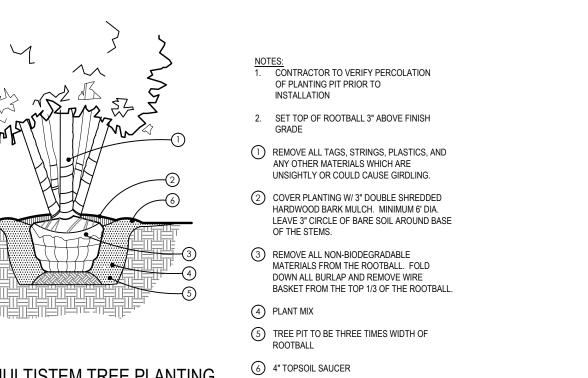


NOTES:

1. CONTRACTOR TO VERIFY PERCOLATION OF PLANTING PIT PRIOR TO INSTALLATION

- 2. SET TOP OF ROOTBALL 2" ABOVE FINISH
- 1 SEE PLAN FOR SPACING
- (2) SHRUBS, SEE PLANT SCHEDULE (3) 3" DEPTH DOUBLE SHREDDED HARDWOOD
- MULCH, TYPICAL FROM ENTIRE ROOTBALL. REMOVE BURLAP FROM TOP 1/2 OF ROOTBALL.
- SHRUB PLANTING

MULTISTEM TREE PLANTING



HEDGE PLANTING NOT TO SCALE L-2

L-2 NOT TO SCALE

SHOVEL CUT OR METAL EDGE, SEE PLAN (6) EXCAVATE EXISTING SOIL TO 12" DEPTH, REPLACE WITH PLANT MIX (7) SCARIFY TO 4" DEPTH AND RE-COMPACT 8 UNDISTURBED SUBGRADE MINIMUM 8" BETWEEN ROOTBALL AND EDGE OF PLANTING PIT 1 DECIDUOUS TREE PLANTING

REMOVE ALL TAGS, STRINGS, PLASTICS, AND ANY OTHER MATERIALS WHICH ARE UNSIGHTLY OR COULD CAUSE GIRDLING.

2 STAKE TREES WITH 2-3" WIDE BELT-LIKE,

AFTER ONE YEAR.

WHERE POSSIBLE

8 4" TOPSOIL SAUCER

1 \ EVERGREEN TREE PLANTING

FABRIC STRAPS ONLY, ARBOR TIE OR APPROVED EQUAL, (CONNECT FROM TREE TO

STAKE OPPOSITE FROM EACH OTHER, AND

ALLOW FOR SOME "FLEXING") DO NOT USE WIRE OR ROPE THROUGH A HOSE. REMOVE

(3) 2"X2" HARDWOOD STAKES OR EQUIVALENT

HARDWOOD BARK MULCH. MINIMUM 6'

REMOVE ALL NON-BIODEGRADABLE

MATERIALS FROM THE ROOTBALL. FOLD DOWN ALL BURLAP AND REMOVE WIRE

7) TREE PIT TO BE 3 TIMES WIDTH OF ROOTBALL

1) REMOVE SECONDARY LEADERS. DO NOT PRUNE TERMINAL LEADER OR BRANCH TOPS. PRUNE

ALL DEAD AND BROKEN BRANCHES.

OR COULD CAUSE GIRDLING.

REMOVE AFTER ONE YEAR.

BASE OF THE TRUNK.

OF THE ROOTBALL.

9 4" TOPSOIL SAUCER

7 PLANT MIX

(2) REMOVE ALL TAGS, STRINGS, PLASTICS, AND ANY OTHER MATERIALS WHICH ARE UNSIGHTL'

(3) STAKE TREES JUST BELOW FIRST BRANCH W/

2-3" WIDE BELT-LIKE, FABRIC STRAPS ONLY, ARBOR TIE OR APPROVED EQUAL, (CONNECT

FROM TREE TO STAKE OPPOSITE FROM EACH

OTHER, AND ALLOW FOR SOME "FLEXING") DO NOT USE WIRE OR ROPE THROUGH A HOSE.

(2) 2"X2" HARDWOOD STAKES OR EQUIVALENT

(5) COVER PLANTING W/ 3" DOUBLE SHREDDED

HARDWOOD BARK MULCH. MINIMUM 6' DIA.

(6) REMOVE ALL NON-BIODEGRADABLE MATERIALS

(8) TREE PIT TO BE 3 TIMES WIDTH OF ROOTBALL

FROM THE ROOTBALL. FOLD DOWN ALL BURLAP

AND REMOVE WIRE BASKET FROM THE TOP 1/3

DRIVEN 6"-8" OUTSIDE OF ROOTBALL. REMOVE

BASKET FROM THE TOP 1/3 OF THE ROOTBALL.

4 COVER PLANTING W/ 3" SHREDDED

DRIVEN 6-8" OUTSIDE OF ROOTBALL. REMOVE

DIAMETER, CONNECT EVERGREEN PLANTINGS 4. SET STAKES VERTICAL AND EVENLY

STAKE EVERGREENS UNDER 12' HEIGHT

2. GUY EVERGREENS 12' HEIGHT AND OVER

3. NEVER CUT OR PRUNE CENTRAL LEADER

5. PRUNE ONLY TO REMOVE DEAD OR

TREE SHALL BEAR SAME RELATION TO

FINISH GRADE AS IT BORE ORIGINALLY

OR SLIGHTLY HIGHER THAN FINISH

GRADE UP TO 4" ABOVE GRADE, IF

FOR HEAVY CLAY SOIL AREAS.

STAKE TREES 3" - 5" CALIPER ONLY

3. CONTRACTOR TO VERIFY PERCOLATION

GUY TREES 6" CALIPER AND OVER

OF PLANTING PIT PRIOR TO

4. SET STAKES VERTICAL AND EVENLY

STAYS OR GUYS TO BE SET ABOVE FIRST

TREE SHALL BEAR SAME RELATION TO

OR SLIGHTLY HIGHER THAN FINISH

GRADE UP TO 4" ABOVE GRADE, IF

FOR HEAVY CLAY SOIL AREAS.

DIRECTED BY LANDSCAPE ARCHITECT

FINISH GRADE AS IT BORE ORIGINALLY

INSTALLATION

NOTES:
1. CONTRACTOR TO VERIFY PERCOLATION OF

PLANTING PIT PRIOR TO INSTALLATION

2. SET TOP OF ROOTBALL 2" ABOVE FINISH GRADE

1 HEDGE MATERIAL, SEE PLAN FOR LOCATION AND PLANT

2) 3" DEPTH DOUBLE SHREDDED HARDWOOD MULCH, TYPICAL

SHOVEL CUT OR METAL EDGE, SEE PLAN

(6) EXCAVATE EXISTING SOIL TO 12" DEPTH, REPLACE WITH

(5) FINISH GRADE

AND SPECIFICATIONS

(8) UNDISTURBED SUBGRADE

(7) SCARIFY TO 4" DEPTH AND RECOMPACT

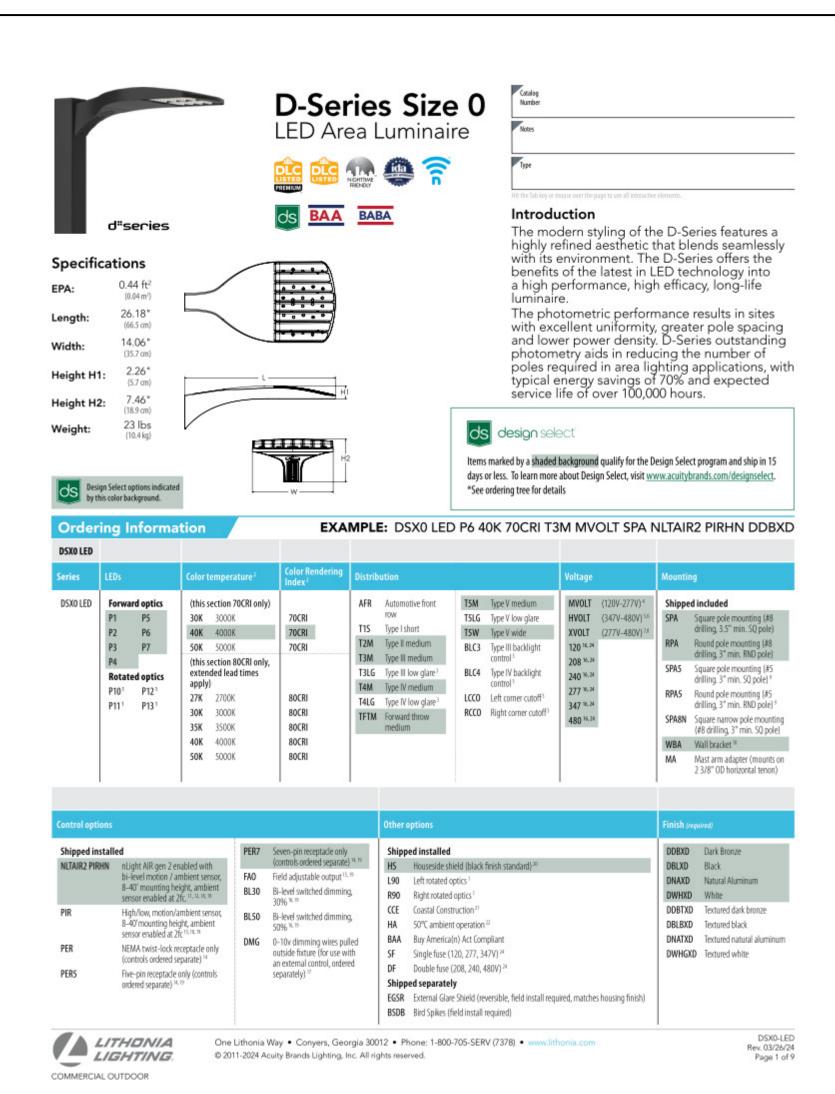
REMOVE ALL NON-BIODEGRADALBE TWINE FROM ENTIRE

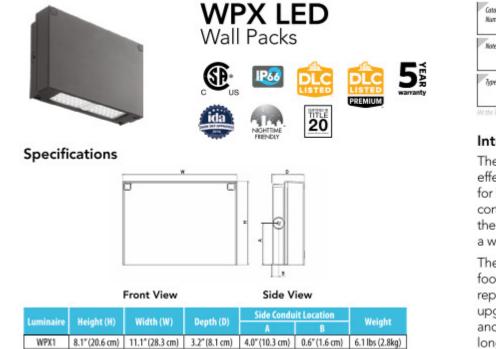
PLANT MIX. SEE GENERAL LANDSCAPE NOTES SHEET L-3

ROOTBALL. REMOVE BURLAP FROM TOP 1/2 OF ROOTBALL.

DIRECTED BY LANDSCAPE ARCHITECT

**NOT FOR** CONSTRUCTION





WPX2 9.1"(23.1 cm) 12.3"(31.1 cm) 4.1"(10.5 cm) 4.5"(11.5 cm) 0.7"(1.7 cm) 8.2 lbs (3.7kg) WPX3 9.5"(24.1 cm) 13.0"(33.0 cm) 5.5"(13.7 cm) 4.7"(12.0 cm) 0.7"(1.7 cm) 11.0 lbs (5.0kg)

Introduction The WPX LED wall packs are energy-efficient, costeffective, and aesthetically appealing solutions for both HID wall pack replacement and new construction opportunities. Available in three sizes, the WPX family delivers 1,550 to 9,200 lumens with a wide, uniform distribution. The WPX full cut-off solutions fully cover the footprint of the HID glass wall packs that they replace, providing a neat installation and an upgraded appearance. Reliable IP66 construction and excellent LED lumen maintenance ensure a long service life. Photocell and emergency egress

battery options make WPX ideal for every wall

mounted lighting application.

Ordering	Information			EXAMPLE: WF	PX2 LED 40K MVOLT DDBX
Series		Color Temperature	Voltage	Options	Finish
WPX1 LED P1 WPX1 LED P2 WPX2 LED WPX3 LED	1,550 Lumens, 11W <sup>3</sup> 2,900 Lumens, 24W 6,000 Lumens, 47W 9,200 Lumens, 69W	30K 3000K 40K 4000K 50K 5000K	MVOLT 120V - 277V 347 347V <sup>3</sup>	(blank) None  E4WH Emergency battery backup, CEC compliant (4W, 0°C min) 2  E14WC Emergency battery backup, CEC compliant (14W, -20°C min) 3  PE Photocell 3	DDBXD Dark bronze DWHXD White DBLXD Black Note: For other options, consult factory.

Note: The lumen output and input power shown in the ordering tree are average representations of all configuration options. Specific values are available on request.

 All WPX wall packs come with 6kV surge protection standard, except WPX1 LED P1 package which comes with 2.5kV surge protection standard. Add SPD6KV option to get WPX1 LED P1 ith 6kV surge protection. ample nomenclature: WPX1 LED P1 40K MVOLT SPD6KV DDBXD Battery pack options only available on WPX1 and WPX2.
 Battery pack options not available with 347V or PE options.

### FEATURES & SPECIFICATIONS

CONSTRUCTION

INTENDED USE The WPX LED wall packs are designed to provide a cost-effective, energy-efficient solution for the one-for-one replacement of existing HID wall packs. The WPX1, WPX2 and WPX3 are ideal for replacing up to 150W, 250W, and 400W HID luminaires respectively. WPX luminaires deliver a uniform, wide distribution. WPX is rated for -40°C to 40°C.

WPX feature a die-cast aluminum main body with optimal thermal management that both enhances LED efficacy and extends component life. The luminaires are IP66 rated, and sealed against moisture or environmental contaminants.

Light engine(s) configurations consist of high-efficacy LEDs and LED lumen maintenance of L90/100,000 hours. Color temperature (CCT) options of 3000K, 4000K and 5000K with minimum CRI of 70. Electronic drivers ensure system power factor >90% and THD <20%. All luminaires have 6kV surge protection (Note: WPX1 LED P1 package comes with a standard surge protection rating

All photocell (PE) operate on MVOLT (120V - 277V) input. Note: The standard WPX LED wall pack luminaires come with field-adjustable drive current feature. This feature allows tuning the output current of the LED drivers to adjust the lumen INSTALLATION

PX can be mounted directly over a standard electrical junction box. Three 1/2 inch conduit ports on three sides allow for surface conduit wiring. A port on the back surface allows poke-through conduit wiring on surfaces that don't have an electrical junction box. Wiring can be made in the integral wiring compartment in all cases. WPX is only recommended for installations with LEDs

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. IP66 Rated. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at <a href="https://www.designlights.org/QPL">www.designlights.org/QPL</a> to confirm which versions are qualified. International Dark Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

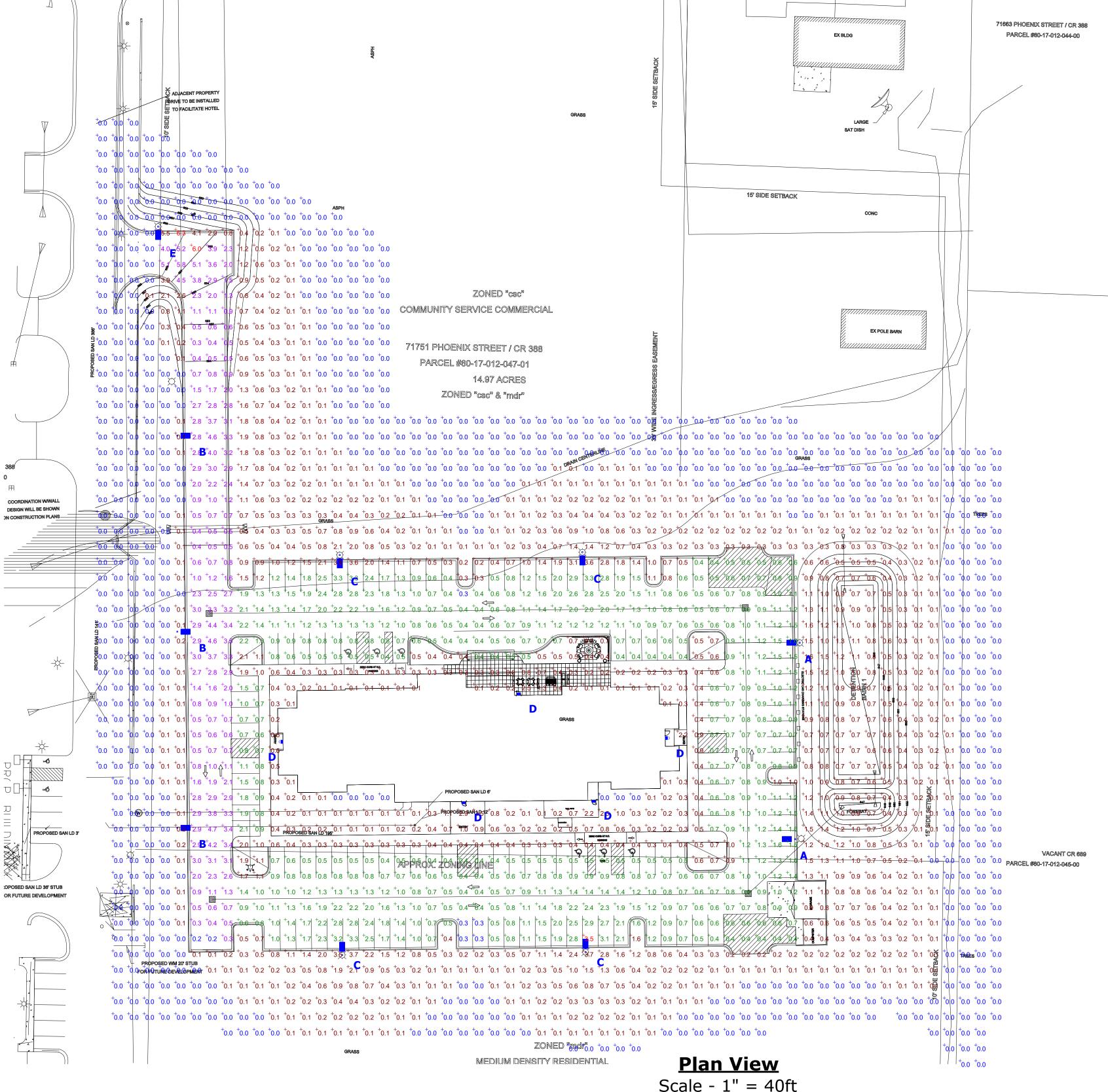
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

Note: Actual performance may differ as a result of end-user environment and application All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.



One Lithonia Way . Conyers, Georgia 30012 . Phone: 1-800-705-SERV (7378) . www.lithonia.com © 2020-2024 Acuity Brands Lighting, Inc. All rights reserved.

WPX LED Rev. 04/12/24



# Ordering Note

FOR INQUIRIES CONTACT GASSER BUSH AT QUOTES@GASSERBUSH.COM OR 734-266-6705.

### **Drawing Note**

THIS DRAWING WAS GENERATED FROM AN ELECTRONIC IMAGE FOR ESTIMATION PURPOSE ONLY. LAYOUT TO BE VERIFIED IN FIELD BY OTHERS.

### **General Note**

1. SEE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHT.

2. SEE LUMINAIRE SCHEDULE FOR LIGHT LOSS FACTOR. 3. CALCULATIONS ARE SHOWN IN FOOTCANDLES AT: 0' - 0".

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT

TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS. MOUNTING HEIGHTS INDICATED ARE FROM GRADE AND/OR FLOOR UP.

THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT IS RESPONSIBLE TO REVIEW FOR MICHIGAN ENERGY CODE AND LIGHTING QUALITY COMPLIANCE.

UNLESS EXEMPT, PROJECT MUST COMPLY WITH LIGHTING CONTROLS REQUIRMENTS DEFINED IN ASHRAE 90.1 2013. FOR SPECIFIC INFORMATION CONTACT GBA CONTROLS GROUP AT ASG@GASSERBUSH.COM OR 734-266-6705

Symbol	Label	QTY	Manufacturer	Description	Mounting Height
	A	2	Lithonia Lighting	D-Series Size 0 Area Luminaire 4000K	20'-0"
	В	3	Lithonia Lighting	D-Series Size 0 Area Luminaire 4000K	20'-0"
	С	4	Lithonia Lighting	D-Series Size 0 Area Luminaire 4000K	20'-0"
	D	5	Lithonia Lighting	WPX1 LED 4000K	10'-0"
	Е	1	Lithonia Lighting	D-Series Size 0 Area Luminaire 4000K	20'-0"

+ 0.5 fc 6.3 fc 0.0 fc

N/A

+ 1.0 fc 3.5 fc 0.3 fc 11.7:1 3.3:1 0.3:1

+ 2.0 fc 6.0 fc 0.2 fc 30.0:1 10.0:1 0.3:1

N/A

Statistics

**Description** 

PARKING LOT

ENTRY ROAD

OVERALL



caina@gasserbush.com

734-460-4036

www.gasserbush.com

0.1:1

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SUITES - SOUMETRIC SITE REUSH ASSOC POR: UMLOR GASSERBUSH.