

ORANGE COUNTY CAPITAL PROJECT DIVISION
INTERNAL OPERATIONS CENTER II
400 E. SOUTH STREET, 5TH FLOOR
ORLANDO, FL 32801



ORANGE COUNTY MAYOR
HONORABLE TERESA JACOBS

COMMISSIONER DISTRICT 1
S. SCOTT BOYD

COMMISSIONER DISTRICT 2
BRYAN NELSON

COMMISSIONER DISTRICT 3
PETE CLARKE

COMMISSIONER DISTRICT 4
JENNIFER THOMPSON

COMMISSIONER DISTRICT 5
TED B. EDWARDS

COMMISSIONER DISTRICT 6
VICTORIA P. SIPLIN

PROJECT
W. ORANGE MAINTENANCE BUILDING
704 BEULAH ROAD
WINTER GARDEN, FL 34787

ORANGE COUNTY PROJECT MANAGER: SCOTT REEKIE

BASE CONSULTANTS

ARCHITECTURAL DESIGN COLLABORATIVE

SGM ENGINEERING



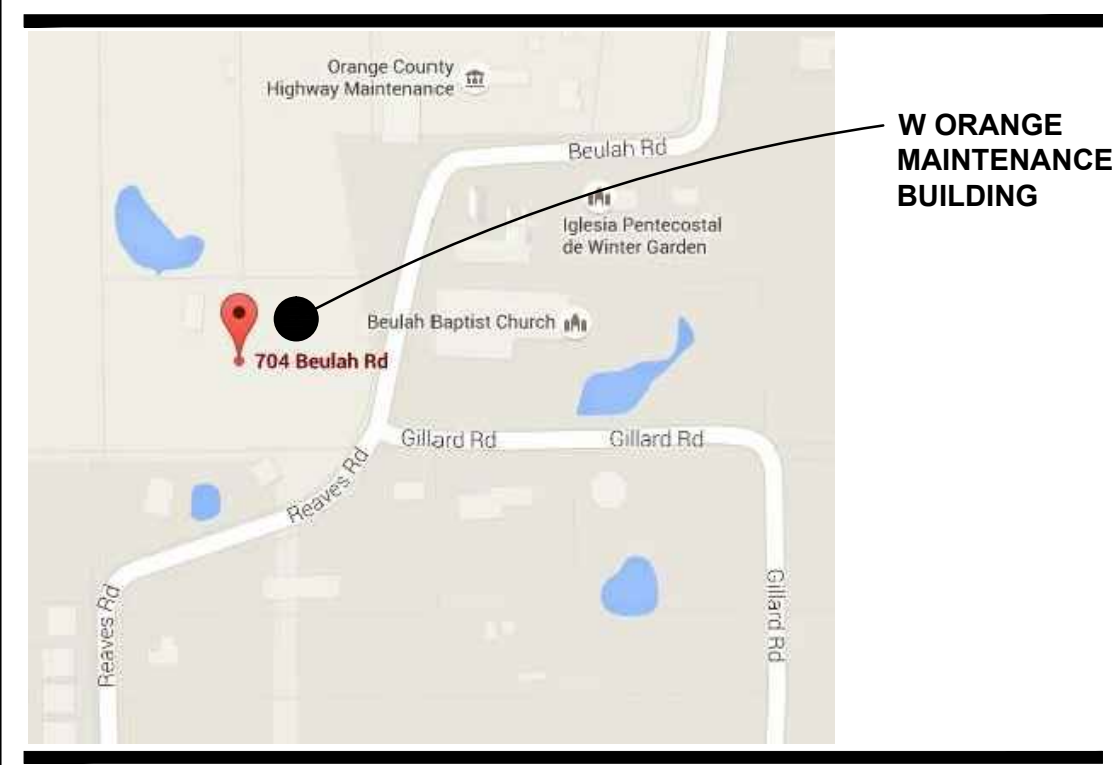
LOCATION MAP
NOT TO SCALE

FINAL BID/PERMIT SET
100% CD
08.05.16

ARCHITECTURAL ABBREVIATIONS

A	ACCES ACCESSORY ACOUS ACOUSTIC(AL) AFF ABOVE FINISHED FLOOR AHJ AUTHORITY HAVING JURISDICTION AL ALUMINUM ALT ALTERNATE ANNUNC ANNUNCIATOR ANOD ANODIZED APPL APPLIANCE ARCH ARCHITECT(URAL) AUTO AUTOMATIC AVG AVERAGE & AND	G	GA GAUGE GFRC GLASS FIBER REINFORCED CONCRETE GFRG GLASS FIBER REINFORCED GYPSUM GFRP GLASS FIBER REINFORCED PLASTER GL GLASS GR GRAD(E)(ING) GYP GYPSUM	R	RDR READER RECES RECESSED RECPRT RECEPTACLE REF REFER(ENCE) REFL REFLECTED REFR REFRIGERATOR REQD REQUIRED RESIS RESIST(ANT)(IVE) REINF REINFORCE(D)(ING)(MENT) RESIL RESILIENT RFG ROOFING RM ROOM RO
B	BLDG BUILDING BOLLD BOLLARD BD BOARD BLKG BLOCKING BRDLM BROADLOOM BU BUILT UP	H	HD HEAD HDWD HARDWOOD HDWE HARDWARE HM HOLLOW METAL HORIZ HORIZONTAL HVAC HEATING, VENTILATING, AND AIR CONDITIONING	S	SCR SCRIBE SECUR SECURITY SF SQUARE FEET SGL SINGLE SHORG SHORING SIM SIMILAR SST STAINLESS STEEL STD STANDARD STL STEEL STRFR STOREFRONT STRUCT STRUCTURAL SURF SURFACE SUSP SUSPENDED SYS SYSTEM(S)
C	CAB CABINET CPT CARPET CEM CEMENT(ITIOUS) CER CERAMIC CLG CEILING COATG COATING COILG COILING CONC CONCRETE CONSTR CONSTRUCTION CONT CONTINUOUS(ATION) CONTR CONTRACT(OR) COV COVER CMU CONCRETE MASONRY UNIT	I	INFO INFORMATION INSTRUM INSTRUMENT(ATION) INSUL INSULATION INTLK INTERLOCK(ING) INT INTERIOR INFILTR INFILTRATION	T	THK THICK TLT TOILET TRAF TRAFFIC TRANS TRANSPARENT TRTD TREATED T&G TONGUE AND GROOVE TYP TYPICAL
D	DBL DOUBLE DEPT DEPARTMENT DES DESIGN(ED) DET DETAIL DF DRINKING FOUNTAIN DIA DIAMETER DIFF DIFFUSER DIM DIMENSION DISP DISPENSER DIV DIVISION DN DOWN \$ DOLLAR (US CURRENCY) DR DOOR DSCON DISCONNECT DWR DRAWER	J	JAN JANITOR	U	UNDRLAY UNDERLAYMENT UTIL UTILITY UNO UNLESS NOTED OTHERWISE
E	ELAST ELASTOMERIC ELEC ELECTRICAL EMBED EMBEDD(ED)(ING) ENGR ENGINEER(ED) ENTR ENTRANCE EQ EQUAL EQUIP EQUIPMENT EXIST EXISTING EXP JT EXPANSION JOINT EXPS EXPOSE(D) EXT EXTERIOR	K	KIT KITCHEN	V	VEH VEHICLE VERT VERTICAL VIF VERIFY IN FIELD
F	FAB FABRICATION FD FLOOR DRAIN FE FIRE EXTINGUISHER FE&C FIRE EXTINGUISHER AND CABINET FHC FIRE HOSE CABINET FIN FINISH FLDG FOLDING FPLC FIREPLACE FR FIRE RAT(ING)(ED) FRMG FRAMING FXD FIXED FXTR FIXTURE FLR FLOOR(ING) FURN FURNITURE FUT FUTURE FWC FABRIC WALL COVERING FUT FUTURE	L	LAV LAVATORY LB POUND £ BRITISH POUND (CURRENCY) LT LIGHT LVLG LEVELING LVR LOUVER	W	W/ WITH WC WATER CLOSET WD WOOD WDW WINDOW W/O WITHOUT WT WEIGHT WTRPRF WATERPROOFING
		M	MAX MAXIMUM MFD MANUFACTURED MFR MANUFACTURER MECH MECHANICAL MET METAL MEMB MEMBRANE MEZZ MEZZANINE MIN MINIMUM MISC MISCELLANEOUS MLWK MILLWORK MOIST MOISTURE MOT MOTOR(IZED) MTD MOUNTED		
		N	NIC NOT IN CONTRACT NO NUMBER NTS NOT TO SCALE		
		O	ORNA ORNAMENTAL OVFL OVERFLOW OVHD OVERHEAD OPNG OPENING(S) OPR OPERABLE		
		P	PTN PARTITION PEDTR PEDESTRIAN PBD PARTICLE BOARD PJM PROJECT MANAGER PNL PANEL POLYST POLYSTYRENE PORT PORTABLE PREFIN PREFINISHED PREFAB PREFABRICATED PLAM PLASTIC LAMINATE PLAS PLASTER PLSTC PLASTIC PLYWD PLYWOOD PRTECN PROTECTION		

VICINITY MAP



PROJECT INFORMATION

APPLICABLE CODES
 FLORIDA BUILDING CODE - 2014
 FLORIDA BUILDING CODE ACCESSIBILITY (5th EDITION 2014)
 FLORIDA FIRE PREVENTION CODE - (5th EDITION)
 NFPA 101 - LIFE SAFETY CODE 2012 WITH FLORIDA AMENDMENTS
 NFPA 1- UNIFORM FIRE CODE 2012 WITH FLORIDA AMENDMENTS
 NFPA 70 - NATIONAL ELECTRICAL CODE -2011
 FLORIDA MECHANICAL CODE - N/A

OCCUPANCY
 GROUP CLASSIFICATION: MODERATE HAZARD STORAGE S-1
 OCCUPANT/SQ. FT.: 300
 SCOPE OF WORK SQ. FT.: 1,986 SQ. FT.
 OCCUPANT DESIGN LOAD: 7 (1,986 SQFT/300 = 6.62 OR 7)

CONSTRUCTION
 TYPE: II B
 SPRINKLED or NONSPRINKLED: NONSPRINKLED
 BUILDING HEIGHT: 17'-6"

CLASSIFICATION OF WORK:
 COVERED, UN-ENCLOSED NEW METAL PRE-ENGINEERED BUILDING
 CONSTRUCTION FOR PARKING/MAINTENANCE OF COUNTY VEHICLES

PLUMBING REQUIREMENTS: N/A

PROJECT NARRATIVE

PROJECT NARRATIVE/SCOPE OF WORK
 THIS PROJECT IS TO REPLACE THE EXISTING BEULAH ROAD VEHICLE MAINTENANCE BUILDING WITH A NEW MAINTENANCE BUILDING MODELED ON THE COUNTY'S THREE POINTS MAINTENANCE FACILITY. THE NEW BUILDING WILL BE A PRE-ENGINEERED METAL BUILDING COMPOSED OF THREE 24'-0" WIDE BAYS. THE EXISTING BUILDING WAS IN DISREPAIR AND IN POOR CONDITION. IT HAS BEEN DEMOLISHED IN ANTICIPATION OF THE NEW PROJECT. THE NEW BUILDING WILL BE CONSTRUCTED WITHIN THE SAME LOCATION/PAD FOOTPRINT OF THE FORMER BUILDING.
 NO PLUMBING AND/OR PNEUMATIC EQUIPMENT IS PLANNED.

SCOPE OF WORK NOTES:

1. WORK THAT IS NOT STATED HEREIN NOR SHOWN IN THESE PLANS IS NOT PART OF THE SCOPE OF WORK FOR THIS PROJECT.
2. ADDITIONAL WORK REQUIRED THAT WOULD ALTER THE PRESENTED SCOPE OF WORK SHALL BE SUBJECT TO A REVISION OF THESE DOCUMENTS AND MAY BE REQUIRED TO BE REVIEWED BY THE BUILDING DEPARTMENT HAVING JURISDICTION.

DRAWING INDEX

ARCHITECTURAL

COVER	COVER SHEET
A00.00	INDEX, CODES & PROJECT INFORMATION
A00.50	ARCHITECTURAL SITE PLAN
A02.01	CONSTRUCTION PLAN
A03.0	EXTERIOR ELEVATIONS
A04.0	EXTERIOR ELEVATIONS
A05.0	BUILDING SECTION

STRUCTURAL

S001	ABBREVIATIONS, SYMBOLS, AND SHEET INDEX
S100	FOUNDATION PLAN
S002	STRUCTURAL GENERAL NOTES
S300	SECTIONS AND DETAILS
S301	SECTIONS AND DETAILS

ELECTRICAL

E-001	ELECTRICAL SYMBOLS, LEGEND & GENERAL NOTES
E-100	ELECTRICAL SITE PLAN
E-101	ELECTRICAL PLAN
E-201	EXISTING ELECTRICAL RISER DIAGRAM

ADC
 ARCHITECTURAL DESIGN COLLABORATIVE

945 N. PENNSYLVANIA AVENUE
 WINTER PARK, FLORIDA 32789
 OFFICE: (407) 629-1188
 FAX: (407) 388-1220
 WWW.ADCINTERNATIONAL.NET

STATE OF FLORIDA
 MARIA FERREIRA, R.A.
 Architect • Seal/Signature

AA-C001315
 AR-95752

Project Documents for:

Project:
 W. ORANGE VEHICLE MAINTENANCE BUILDING

704 BEULAH ROAD
 WINTER GARDEN, FL 34787

Issue	Date & Issue Description	Drawn By	Checked By
	05.10.16	PD SET	AJC KA
	05.23.16	60% CD SET	AJC KA
	06.24.16	90% CD SET	KA AJC
	08.05.16	BID/PERMIT	KA MF

PLANNING

Client Information
 ORANGE COUNTY CAPITAL PROJECTS DIVISION
 400 E SOUTH STREET
 ORLANDO, FL 32801

Project Number	Issue Date
15265	08/05/2016
Drawn By	Project Status
KA	BID / PERMIT
Checked By	Scale
MF	NTS

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Sheet Title:

INDEX

A00.00

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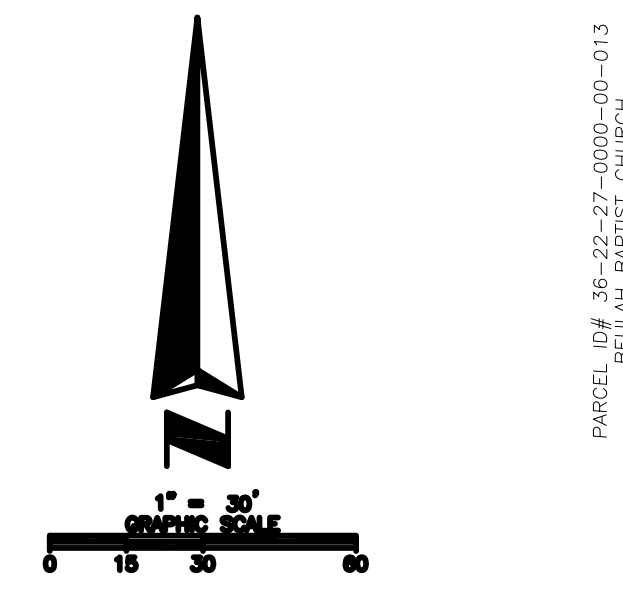
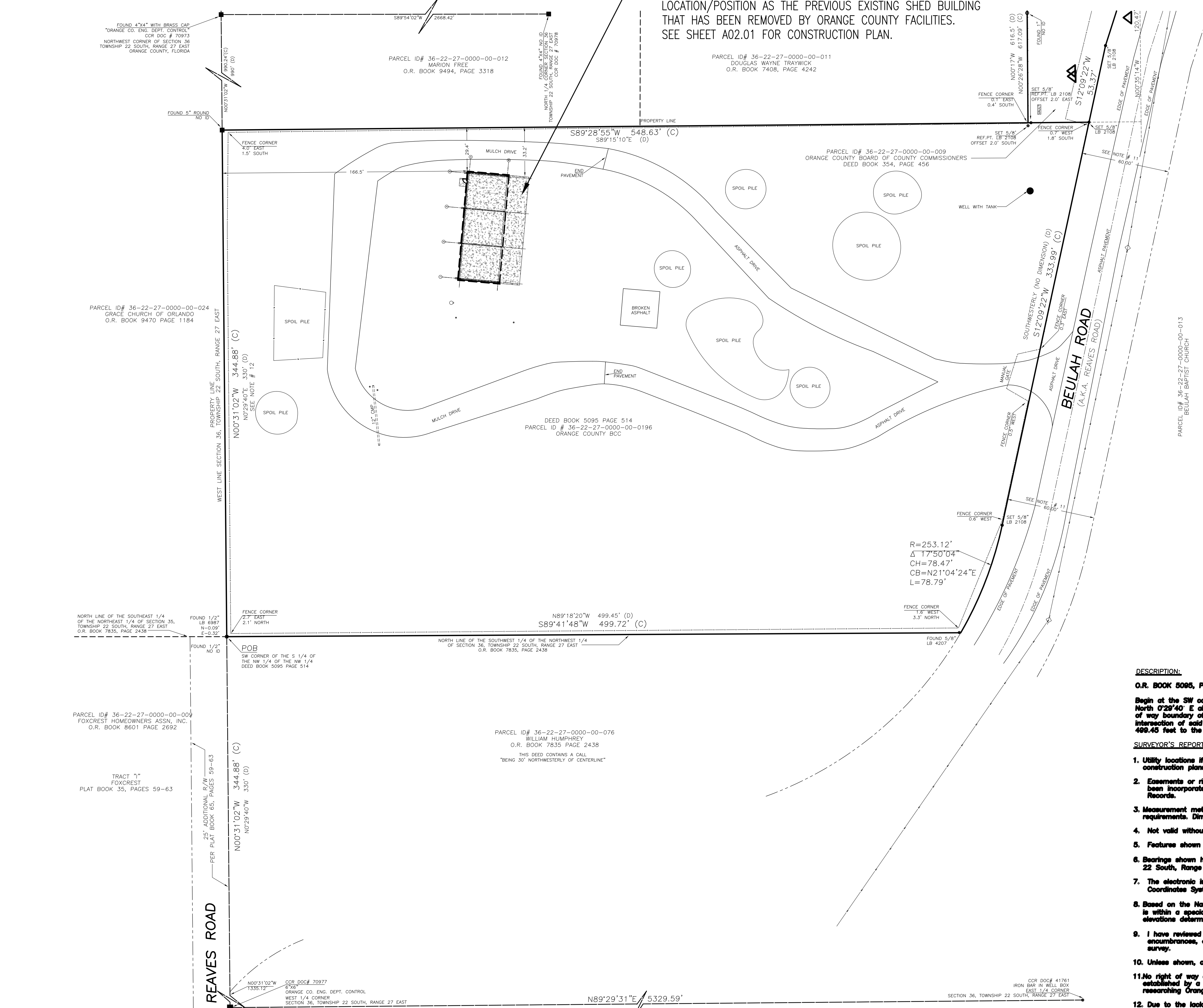
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ARCHITECTURAL SITE PLAN

A00.50

NOTE:
NEW MAINTENANCE BUILDING WILL BE PLACED IN THE SAME LOCATION/POSITION AS THE PREVIOUS EXISTING SHED BUILDING THAT HAS BEEN REMOVED BY ORANGE COUNTY FACILITIES. SEE SHEET A02.01 FOR CONSTRUCTION PLAN.



LEGEND & ABBREVIATIONS

■ = CONCRETE MONUMENT	⊖ = VAULT
⊙ = CLEAN OUT	⊗ = MANHOLE
⊕ = FIRE HYDRANT	⊘ = LIGHT POLE
∨ = DOWN GUY	⊚ = MANHOLE
○ = IRON PIPE	⊞ = AIR CONDITIONING UNIT
• = IRON ROD	⊠ = FLAT GRATE INLET
○ = NAIL W/DISC	· = POST
⊕ = POWER POLE	⊙ = VENT
⊞ = ELECTRIC SERVICE METER	⊗ = SEWER VALVE
⊙ = WELL	⊗ = LANDSCAPE LIGHTING
⊞ = WATER METER	⊞ = IRRIGATION VALVE BOX
⊞ = WATER VALVE	⊞ = GREASE TRAP
⊞ = BACKFLOW PREVENTER	-OHL- = OVERHEAD LINE
⊞ = MONITORING WELL	LB = LICENSED BUSINESS
⊞ = BURIED CABLE TV PEDESTAL	ID = IDENTIFICATION
⊞ = BURIED TELEPHONE PEDESTAL	R = RADIUS
⊞ = ELECTRIC FIXTURE	Δ = DELTA
⊞ = WATER SPIGOT	CH = CHORD
CCR = CERTIFIED CORNER RECORD	CB = CHORD BEARING
-X- = CHAIN LINK FENCE	L = LENGTH
-□- = WOODEN FENCE	(C) = CALCULATED
OR = OFFICIAL RECORDS	(D) = DEED
CMP = CORRUGATED METAL PIPE	POB = POINT OF BEGINNING
BCC = BOARD OF COUNTY COMMISSIONERS	ASSN = ASSOCIATION
AKA = ALSO KNOWN AS	P.O.C. = POINT OF COMMENCEMENT

DESCRIPTION:


O.R. BOOK 8085, PAGE 514 per Official Records of Orange County, Florida
Begin at the SW corner of the S 1/4 of the NW 1/4 of the NW 1/4 of Section 36, Township 22 South, Range 27 East, go North 0°28'40" E along the West section line 330 feet, thence S 89°18'10" E to a point at the intersection of the West right of way boundary of the road known as Reeves Road; thence SW along the Western boundary of said right of way to the intersection of said right of way boundary with the South section line of said section, thence West North 89°18'20" West 499.45 feet to the POB, of Orange County, Florida

SURVEYOR'S REPORT:

- Utility locations if shown hereon are based on field location of markings by Utility Company representatives, surface features and construction plans furnished to the surveyor. Additional sub-surface utilities may exist that have not been field located.
- Easements or rights of way that appear on recorded plans or that have been furnished to the surveyor or by others have been incorporated into this drawing with appropriate notation. Other easements may be discovered by a search of the Public Records.
- Measurement methods used for this survey meet MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING CH. 61017-8 requirements. Dimensions are shown in feet and decimals thereof.
- Not valid without the signature and raised seal of a Florida Licensed Surveyor and Mapper.
- Features shown by symbol as indicated in the legend are not to scale.
- Bearings shown hereon are based on recovered monumentation on the North line of the Northwest 1/4 of section 36, Township 22 South, Range 27 East, Orange County, Florida. Bearing being S89°54'02"W.
- The electronic image of this map contains horizontal positions for all features shown relative to the Florida State Plane Coordinates System, Florida East Zone, '83/90 adjustment.
- Based on the National Flood Insurance Program FIRM Map No. 12085C0215 E, dated 12/06/2000, the above described property is within a special flood hazard Zone "X", areas determined to be outside the 500-year flood plain and Zone "A" no base flood elevations determined.
- I have reviewed the Fidelity Title & Loan Company title insurance commitment # 44406, dated July 8, 1927 and all encumbrances, except liens, identified in Schedule B of the title insurance commitment have been shown or noted on the survey.
- Unless shown, only those visible features in the immediate vicinity of the above described parcel boundary have been located.
- No right of way documentation for Beulah Road has been furnished or found. The right of way and boundary as shown was established by a combination of splitting the asphalt pavement, found monumentation, occupation and information found researching Orange County Real-Estate and Property Appraisers office.
- Due to the lack of controlling calls in the description furnished by the client monumentation found in the field that appears to be in harmony with the adjacent deed lines was held as evidence of the boundary lines for this Boundary Survey.
- The above described parcel contains 4.37 acres, more or less, lying Westerly of the right of way line as described above.

NOTICE OF LIABILITY:

This survey is certified to those individuals shown on the face thereof. Any other use, benefit or reliance by any other party is strictly prohibited and restricted. Surveyor is responsible only to those certified and hereby disclaims any other liability and hereby restricts the rights of any other individual or firm to use this survey, without express written consent of the Surveyor.



Boundary Survey

Survey Date: 02/26/2008
Drawing Number: 53268002
Scale: 1"=30'
Drawn By: SB

Orange County Board of County Commissioners
West Orange Maintenance Unit
704 Beulah Road

SURVEYOR'S PROFESSIONAL & SUPPORT CORP.
5000 W. UNIVERSITY BLVD., SUITE 200
ORLANDO, FLORIDA 32835
(407) 252-0200, Ext. 200
© 2008

GARY B. BRINK
Registered Land Surveyor No. 4846

BREAKDOWN OF PERVIOUS AND IMPERVIOUS AREAS AND PARKING SPACES: PARCEL ID # 36-22-27-0000-00-009		BREAKDOWN OF PERVIOUS AND IMPERVIOUS AREAS AND PARKING SPACES: PARCEL ID # 36-22-27-0000-00-0196	
182,267 SQ.FT.	TOTAL AREA	180,356 SQ.FT.	TOTAL AREA
104,207 SQ.FT.	TOTAL PERVIOUS AREA	177,904 SQ.FT.	TOTAL PERVIOUS AREA
78,060 SQ.FT.	TOTAL IMPERVIOUS AREA	12,452 SQ.FT.	TOTAL IMPERVIOUS AREA
SPECIFIC PERVIOUS AREAS (INCLUDED IN TOTAL PERVIOUS AREA)		SPECIFIC PERVIOUS AREAS (INCLUDED IN TOTAL PERVIOUS AREA)	
16,957 SQ.FT.	DRY RETENTION POND AREA	0 SQ.FT.	DRY RETENTION POND AREA
SPECIFIC IMPERVIOUS AREAS (INCLUDED IN TOTAL IMPERVIOUS AREA)		SPECIFIC IMPERVIOUS AREAS (INCLUDED IN TOTAL IMPERVIOUS AREA)	
7,583 SQ.FT.	OPEN BUILDING/SHED AREA	3,174 SQ.FT.	OPEN BUILDING/SHED AREA
6,170 SQ.FT.	BUILDING AREA	0 SQ.FT.	BUILDING AREA
0 SQ.FT.	WET RETENTION POND AREA	0 SQ.FT.	WET RETENTION POND AREA
PARKING		PARKING	
11	DESIGNATED PARKING SPACES	0	DESIGNATED PARKING SPACES
2	DESIGNATED HANDICAP PARKING SPACES	0	DESIGNATED HANDICAP PARKING SPACES



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• SPACE PLANNING

• INTERIOR DESIGN

• PLANNING

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• ORLANDO, FL 32801

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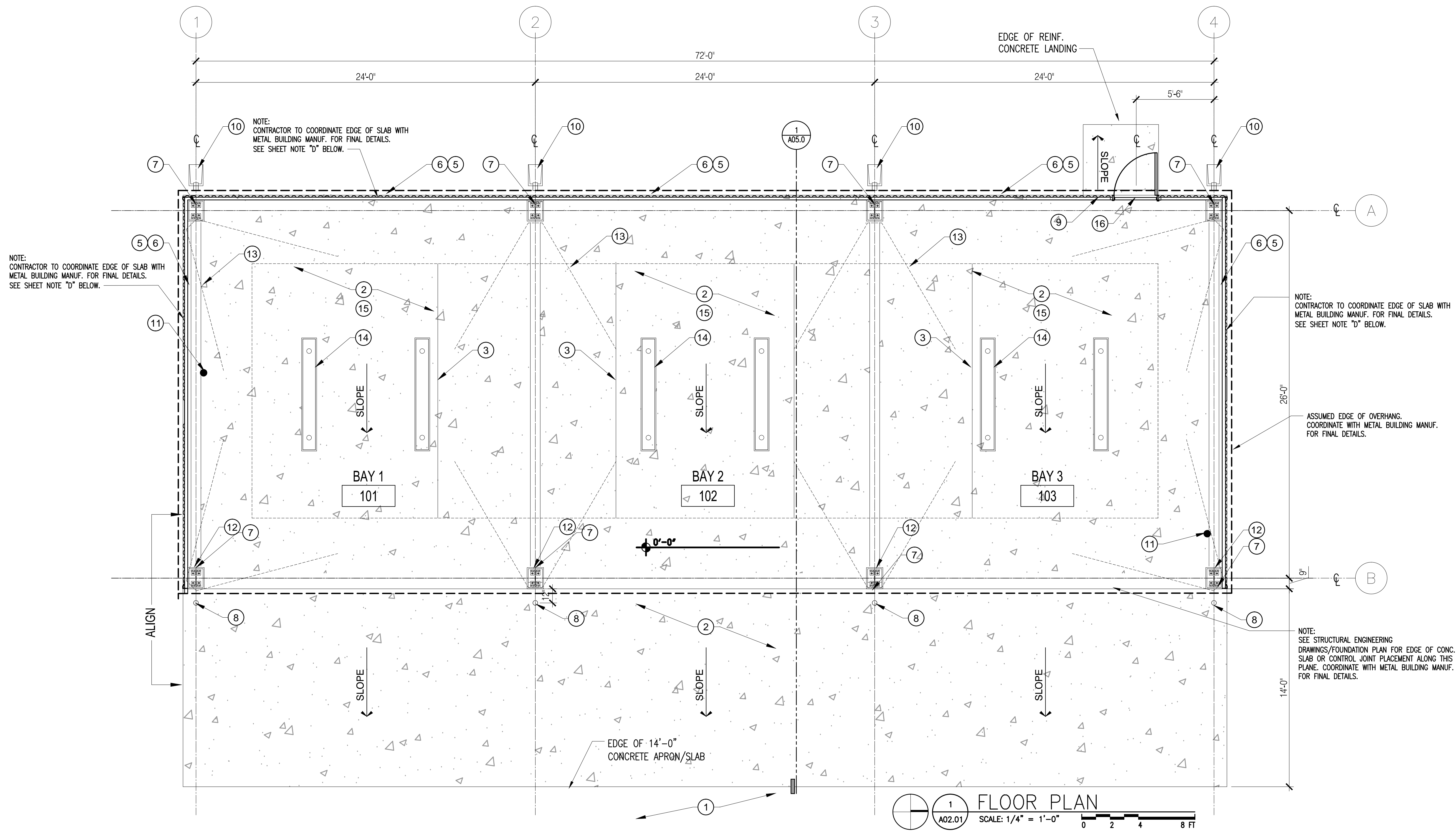
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MF	1/4"=1'-0"

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Consultant • Seal/Signature

Sheet Title:
CONSTRUCTION PLAN

A02.01



FLOOR PLAN
1
A02.01
SCALE: 1/4" = 1'-0"
0 2 4 8 FT

KEY NOTE

- ① EXISTING GRADE AND UN-PAVED DRIVE SURFACE
- ② CONCRETE SLAB ON GRADE SEE STRUCTURAL DWGS.
- ③ CONCRETE CONTROL JOINT - SEE STRUCTURAL DWGS.
- ④ NOT USED
- ⑤ TYP. PRE-ENGINEERED WALL GIRT BY METAL BUILDING MANUFACTURER.
- ⑥ TYP. PRE-ENGINEERED METAL CORRUGATED PANELS WITH LAP SEAMS. COLOR TO BE SELECTED BY ARCHITECT
- ⑦ PRE-ENGINEERED STEEL COLUMN AND COLUMN BASE PLATE BY METAL BUILDING MANUFACTURER.
- ⑧ 5'-0" HIGH 8" DIA GALV. STEEL PIPE FILLED W/3000 PSI CONCRETE W/ PLASTIC VINYL SLEEVE (SAFETY YELLOW) "POSTGUARD" OR APPROVED EQUAL
- ⑨ PRE-ENGINEERED PORTAL FRAME PROVIDED BY METAL BUILDING MANUFACTURER.
- ⑩ DOWNSPOUT WITH METAL STRAPS BY METAL BUILDING MANUFACTURER. TYPICAL CONCRETE SPLASH BLOCK AT EACH DOWNSPOUT.
- ⑪ WALL MOUNTED PORTABLE FIRE EXTINGUISHERS PER NFPA 10 STANDARD, 48" MAX. MOUNTING HEIGHT TO TOP OF EXTINGUISHER TYP.
- ⑫ GF/MP OUTLET TO BE PROVIDED. SEE ELECTRICAL ENGINEERING.
- ⑬ INDICATES "X" BRACING. SEE STRUCTURAL DWGS.
- ⑭ TYPICAL PENDANT LED OVERHEAD LIGHT FIXTURE. REFER TO ELECTRICAL ENGINEERING FOR DETAILS.

- ⑮ SLOPE SLAB 1/8" PER FOOT AWAY FROM SIDE WALLS TYPICAL.
- ⑯ 3'-0" X 7'-0" PASSAGE DOOR WITH REINF. CONCRETE STOOP PROVIDED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.
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SHEET NOTES

- A. NEW PRE-ENGINEERED METAL BUILDING WITH 3 - 24'-0" X 26'-0" BAYS. BUILDING BY METAL BUILDING MANUFACTURER.
- B. CONCRETE SLAB FOR PRE-ENGINEERED BUILDING: 8" THICK REINFORCED CONCRETE SLAB WITH CONTROL JOINTS AND BEARING PADS AS REQUIRED. SEE STRUCTURAL ENGINEERING DRAWINGS.
- C. INSTALL CONCRETE FILLED BOLLARDS TO PROTECT COLUMNS
- D. FOR THE PURPOSES OF THIS DRAWING IT IS ASSUMED THAT THE OUTSIDE EDGE OF THE BOTTOM TRACK OF THE EXTERIOR METAL SIDING ASSEMBLY AND THE CONCRETE SLAB EDGE ARE IN THE SAME PLANE. A FINAL DETERMINATION OF THE DIMENSIONS AND/OR LOCATION OF THE CONCRETE SLAB EDGE AND DETAILS FOR CONNECTION OF THE EXTERIOR ASSEMBLY HAS TO BE COORDINATED WITH THE FINAL DRAWINGS FROM THE METAL BUILDING MANUFACTURER.
- E. PRE-ENGINEERED BUILDING TO MEET FLORIDA PRODUCT APPROVALS. METAL BUILDING MANUFACTURER SHALL PROVIDE SIGNED AND SEALED DRAWINGS BY A REGISTERED ENGINEER IN THE STATE OF FLORIDA.

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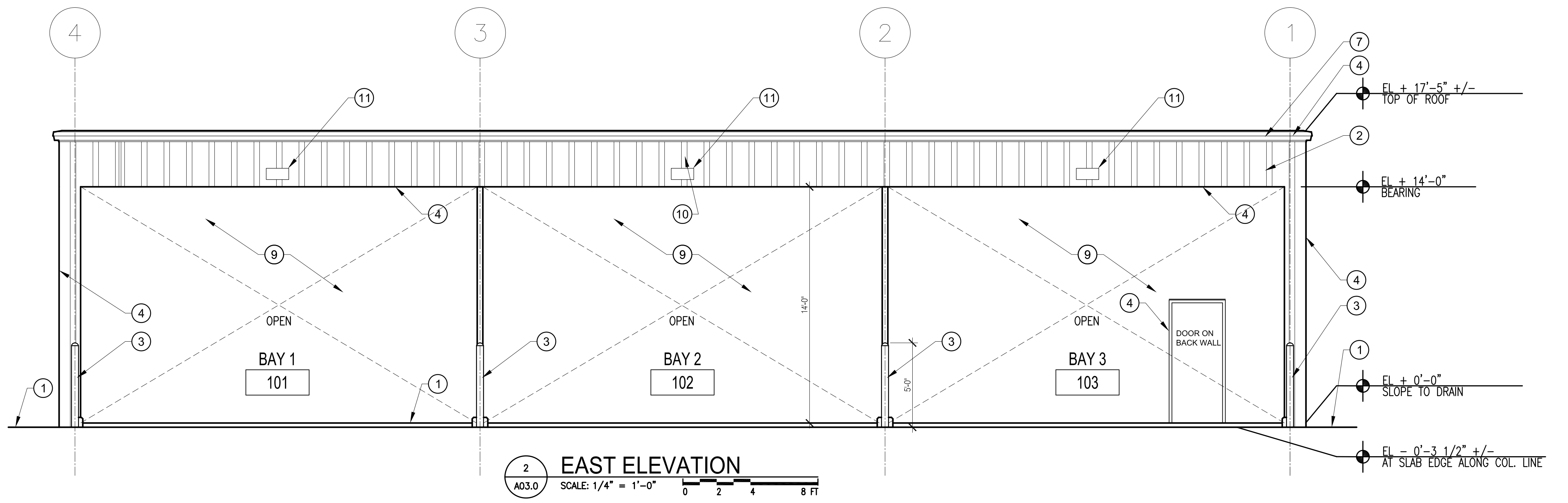
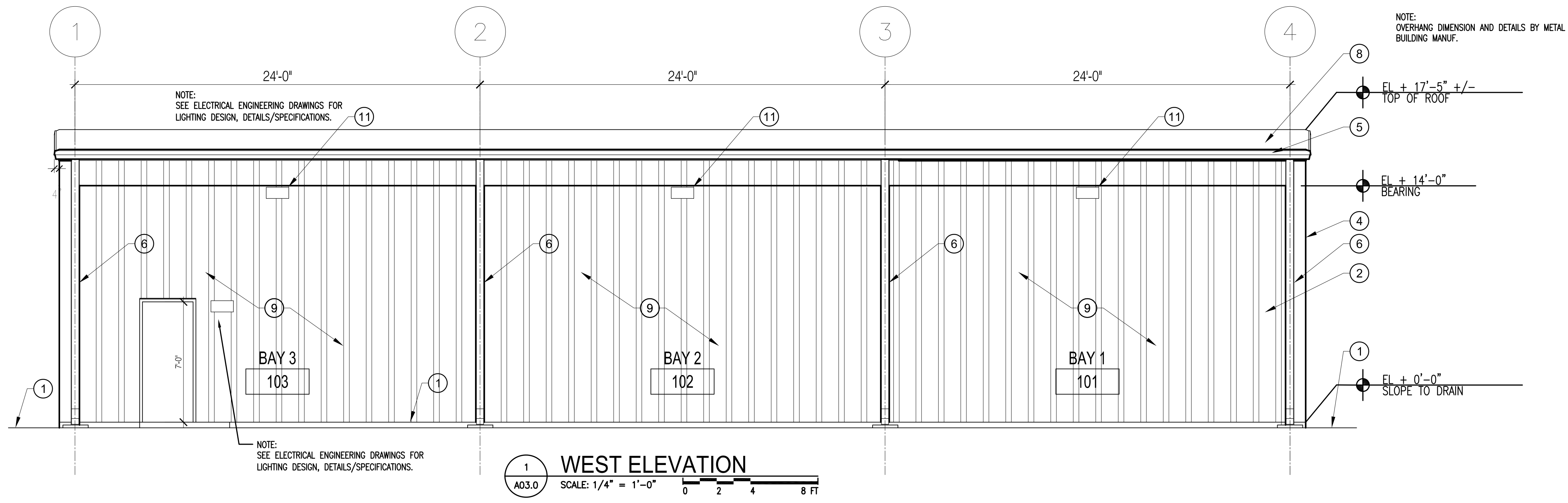
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MF	1/4"=1'-0"

File Name
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Consultant • Seal/Signature



KEY NOTE

- | | |
|---|----|
| 1 NEW REINFORCED CONCRETE SLAB ON GRADE. SEE STRUCTURAL ENGINEERING FOR DESIGN AND DETAILS. | 14 |
| 2 PRE-ENGINEERED METAL CORRUGATED PANELS WITH LAP SEAMS. COLOR TO BE SELECTED BY ARCHITECT. | 15 |
| 3 5'-0" HIGH X 8" DIA. GALVANIZED STEEL PIPE FILLED WITH 3000 PSI CONCRETE. INSTALL "POSTGAURD" OR EQUAL PLASTIC VINYL SLEEVE IN SAFETY YELLOW. | 16 |
| 4 ALL TRIM BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. | 17 |
| 5 24GA GALVANIZED PAINTED GUTTER BY METAL BUILDING MANUFACTURER. | 18 |
| 6 DOWNSPOUT WITH METAL STRAPS BY METAL BUILDING MANUFACTURER. | 19 |
| 7 20GA METAL FASCIA. PAINT COLOR BY ARCHITECT. | 20 |
| 8 GALVALUME STANDING SEAM ROOF, SHOP PAINTED WHITE. | 21 |
| 9 PAINT ALL EXPOSED PRE-ENGINEERED STRUCTURAL MEMBERS COMPLETELY. COLOR BY ARCHITECT. | 22 |
| 10 6" HIGH, DEEP RIBBON STYLE, BLACK ANODIZED ALUMINUM BUILDING NUMBERS BY "GEMINI" OR EQUAL. | 23 |
| 11 EXTERIOR LIGHT FIXTURE. REFER TO ELECTRICAL ENGINEERING DRAWINGS FOR DETAILS. LIGHTING TO BE SENSOR CONTROLLED. | 24 |
| 12 | 25 |
| 13 | 26 |
| | 27 |

SHEET NOTES

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- INSTALL CONCRETE FILLED BOLLARDS TO PROTECT COLUMNS

Sheet Title:

ELEVATIONS

A03.0

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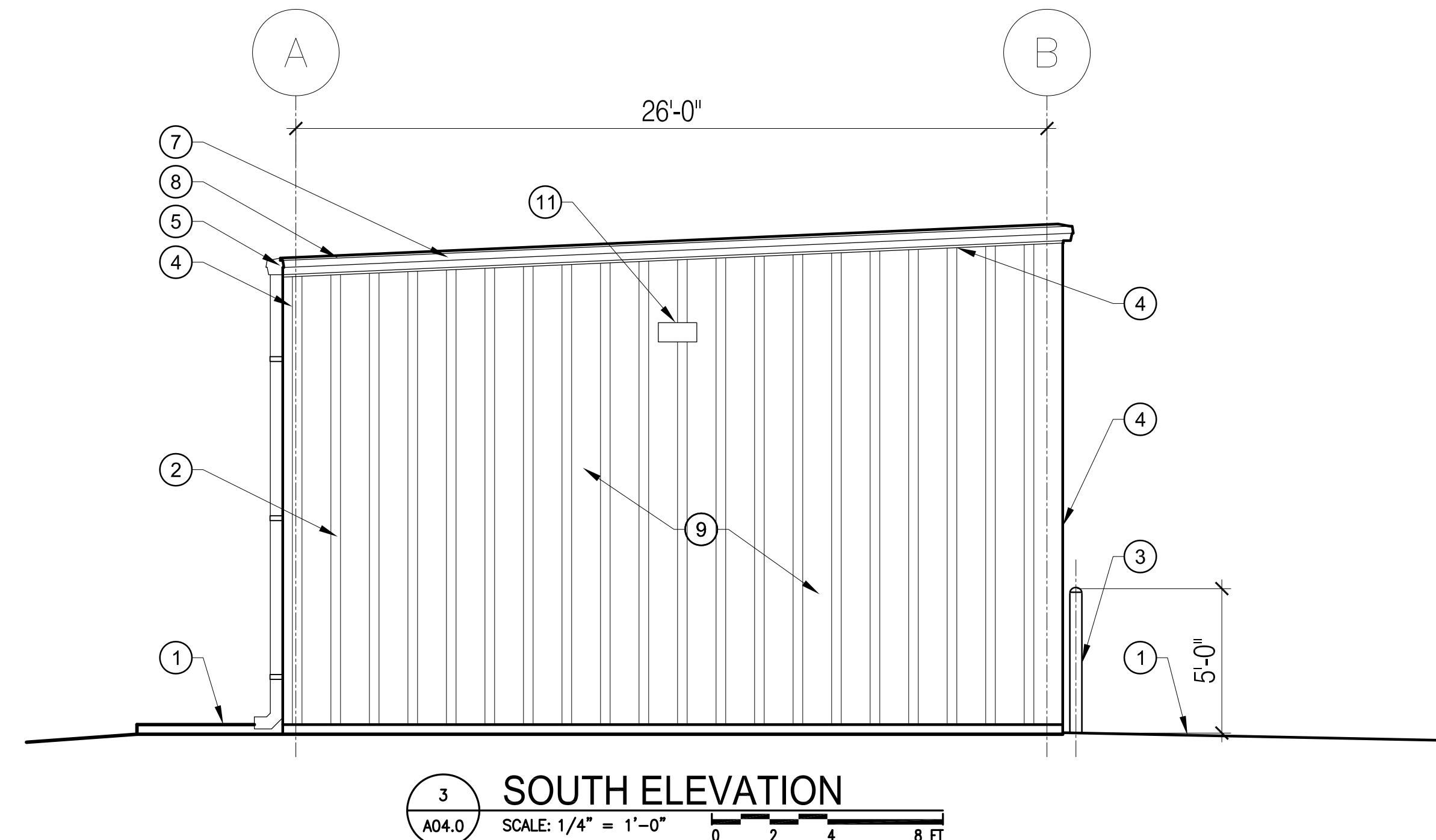
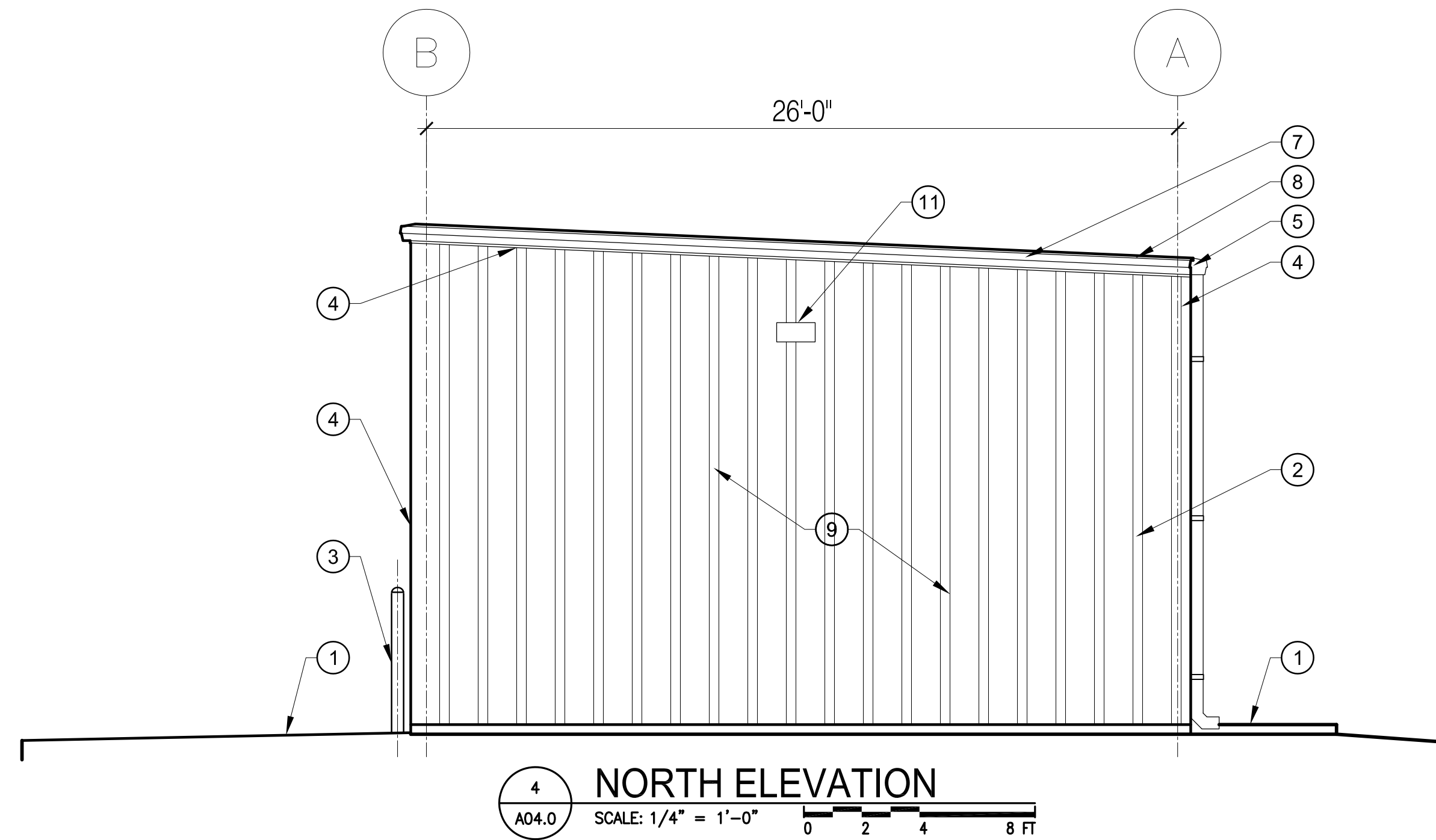
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ORLANDO, FL 32801

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15265	08/05/2016
Drawn By	Project Status
KA	BID / PERMIT
Checked By	Scale
MF	1/4"=1'-0"

File Name
X:\dwgs\15265 W Orange Maintenance\CAD\SHEETS\A04.0 ELEVATIONS.dwg

Consultant • Seal/Signature



KEY NOTE

- | | |
|---|---|
| ① NEW REINFORCED CONCRETE SLAB ON GRADE. SEE STRUCTURAL ENGINEERING FOR DESIGN AND DETAILS. | ⑭ |
| ② PRE-ENGINEERED METAL CORRUGATED PANELS WITH LAP SEAMS. COLOR TO BE SELECTED BY ARCHITECT. | ⑮ |
| ③ 5'-0" HIGH X 8" DIA. GALVANIZED STEEL PIPE FILLED WITH 3000 PSI CONCRETE. INSTALL "POSTGAURD" OR EQUAL PLASTIC VINYL SLEEVE IN SAFETY YELLOW. | ⑯ |
| ④ ALL TRIM BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. | ⑰ |
| ⑤ 24GA GALVANIZED PAINTED GUTTER BY METAL BUILDING MANUFACTURER. | ⑱ |
| ⑥ DOWNSPOUT WITH METAL STRAPS BY METAL BUILDING MANUFACTURER. | ⑲ |
| ⑦ 20GA METAL FASCIA. PAINT COLOR BY ARCHITECT. | ⑳ |
| ⑧ GALVALUME STANDING SEAM ROOF. SHOP PAINTED WHITE. | ㉑ |
| ⑨ PAINT ALL EXPOSED PRE-ENGINEERED STRUCTURAL MEMBERS COMPLETELY. COLOR BY ARCHITECT. | ㉒ |
| ⑩ 6" HIGH, DEEP RIBBON STYLE, BLACK ANODIZED ALUMINUM BUILDING NUMBERS BY "GEMINI" OR EQUAL. | ㉓ |
| ⑪ EXTERIOR LIGHT FIXTURE. REFER TO ELECTRICAL ENGINEERING DRAWINGS FOR DETAILS. LIGHTING TO BE SENSOR CONTROLLED. | ㉔ |
| ⑫ | ㉕ |
| ⑬ | ㉖ |

SHEET NOTES

- NEW PRE-ENGINEERED METAL BUILDING WITH 3 - 24'-0" X 26'-0" BAYS. BUILDING BY METAL BUILDING MANUFACTURER
- CONCRETE SLAB FOR PRE-ENGINEERED BUILDING: 8" THICK REINFORCED CONCRETE SLAB WITH CONTROL JOINTS AND BEARING PADS AS REQUIRED. SEE STRUCTURAL ENGINEERING DRAWINGS.
- INSTALL CONCRETE FILLED BOLLARDS TO PROTECT COLUMNS

Sheet Title:

ELEVATIONS

A04.0

Project Documents for:



Project:
 W. ORANGE VEHICLE MAINTENANCE BUILDING
 704 BEULAH ROAD
 WINTER GARDEN, FL 34787

Issue	Date & Issue Description	Drawn By	Checked By
05.10.16	PD SET	AJC	KA
05.23.16	60% CD SET	AJC	KA
06.24.16	90% CD SET	KA	AJC
08.05.16	BID/PERMIT	KA	MF

• SPACE PLANNING

• INTERIOR DESIGN

Client Information
 ORANGE COUNTY CAPITAL PROJECTS DIVISION
 400 E SOUTH STREET
 ORLANDO, FL 32801

ARCHITECTURE

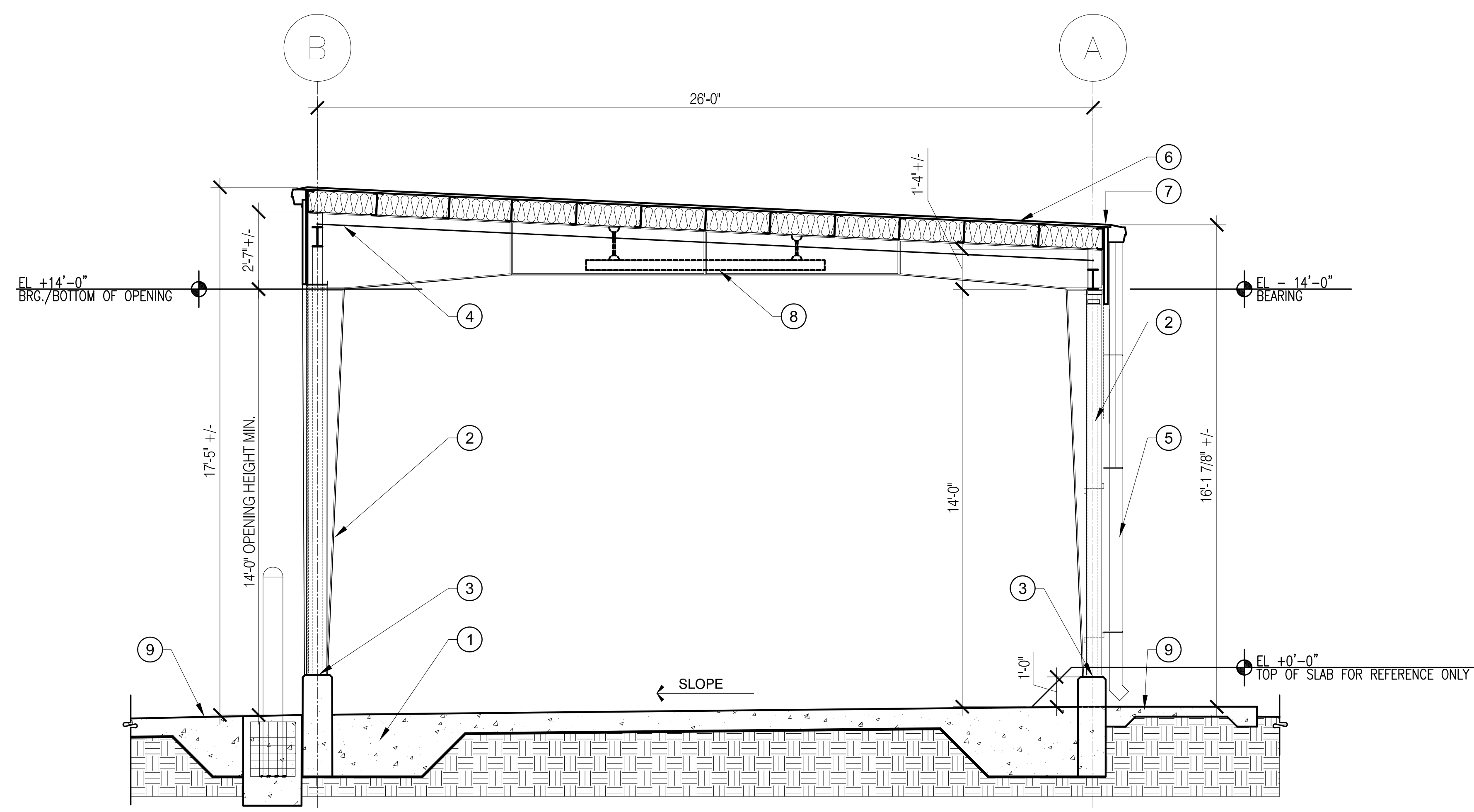
Project Number	Issue Date
15265	08/05/2016
Drawn By	Project Status
KA	BID / PERMIT
Checked By	Scale
MF	3/8"=1'-0"

File Name
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Sheet Title:
BUILDING SECTION

A05.0



1 SECTION
 A05.0 SCALE: 3/8" = 1'-0"
 0 2 4 8 FT

KEY NOTE

① REINFORCED CONCRETE SLAB AND FOOTINGS ON TERMITE TREATED, COMPACTED FILL. SEE STRUCTURAL ENGINEERING FOR FOUNDATION DESIGN AND DETAILS. SLOPE 1/8" PER FOOT.	⑭
② PRE-ENGINEERED METAL BUILDING AND WALL PANELS BY METAL BUILDING MANUFACTURER.	⑮
③ PRE-ENGINEERED STEEL COLUMN AND BEARING PLATE ON FOOTING/PIER. RAISE PIER ABOVE FINISH SLAB ELEVATION TO ELEVATE STEEL COLUMN AND PLATE ABOVE POTENTIAL WATER PONDING. REFER TO STRUCTURAL ENGINEERING.	⑯
④ STEEL "X" BRACING IN UPPER 1/3 OF BEAM. SEE STRUCTURAL ENGINEERING.	⑰
⑤ 24GA. GALVANIZED GUTTER SYSTEM WITH DOWNSPOUTS BY METAL BUILDING MANUFACTURER. PAINT TO MATCH BUILDING.	⑱
⑥ GALVALUME STANDING SEAM ROOF SHOP PAINTED WHITE.	⑲
⑦ ROOF SLIDING CLIPS BY BUILDING MANUFACTURER.	⑳
⑧ TYPICAL LIGHT FIXTURE. MOUNT TO CLEAR "X" BRACING/STRUCTURE. SEE M.E.P. ENGINEERING.	㉑
⑨ CONCRETE APRON. SEE FLOOR PLAN AND STRUCTURAL DWGS.	㉒
⑩	㉓
⑪	㉔
⑫	㉕
⑬	㉖

SHEET NOTES

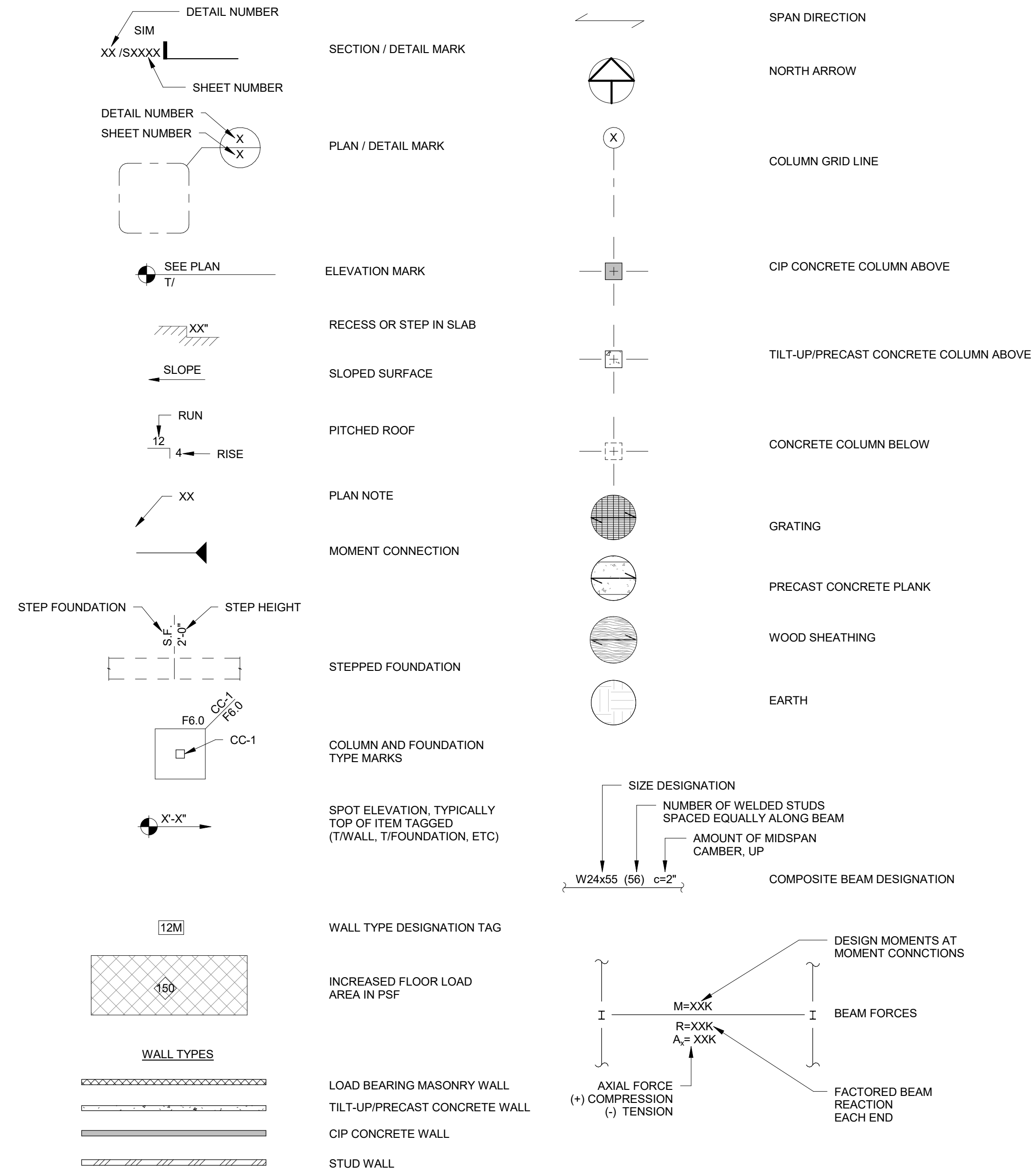
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- CONCRETE SLAB FOR PRE-ENGINEERED BUILDING: 8" THICK REINFORCED CONCRETE SLAB WITH CONTROL JOINTS AND BEARING PADS AS REQUIRED. SEE STRUCTURAL ENGINEERING DRAWINGS.
- INSTALL CONCRETE FILLED BOLLARDS TO PROTECT COLUMNS

PRINTED ON: Jul 29, 2016 - 4:07pm

STRUCTURAL ABBREVIATIONS

ABBREV	ABBREVIATION	LB	POUND
ACI	AMERICAN CONCRETE INSTITUTE	LGTH	LENGTH
ADD	ADDITIVE	LL	LIVE LOAD
ADDL	ADDITIONAL	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISHED FLOOR	LLV	LONG LEG VERTICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LSH	LONG SIDE HORIZONTAL
ASIS	AMERICAN IRON AND STEEL INSTITUTE	LSV	LONG SIDE VERTICAL
ALT	ALTERNATE/ALTERNATIVE	LONG.	LONGITUDINAL
ALUM	ALUMINUM	LSL	LAMINATED STRAND LUMBER
ARCH	ARCHITECTURE/ARCHITECTURAL	LWT	LIGHT WEIGHT
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	LVL	LAMINATED VENEER LUMBER
AWS	AMERICAN WELDING SOCIETY	MATL	MATERIAL
B.O.	BOTTOM OF	MAX	MAXIMUM
BLDG	BUILDING	MB	MASONRY BEAM
BLK	BLOCK	MECH	MECHANICAL
BM	BEAM	MET	METAL
BOT	BOTTOM	MFR	MANUFACTURE/MANUFACTURER
BP	BASE PLATE/BEARING PLATE	MID	MIDDLE
BRG	BEARING	MIN	MINIMUM
BTWN	BETWEEN	MISC	MISCELLANEOUS
C	CHANNEL	MO	MASONRY OPENING
CB	CONCRETE BEAM	MPH	MILES PER HOUR
CC	CONCRETE COLUMN	NGVD	NATIONAL GEODETIC VERTICAL DATUM
CF	CUBIC FEET (FOOT)	NIC	NOT IN CONTRACT
CIP	CAST IN PLACE	NO	NUMBER
CJ	CONTRACTION JOINT	NS	NEAR SIDE
CL	CENTERLINE	NTS	NOT TO SCALE
CIP	CLEARANCE	OC	ON CENTERS
CM	CONCRETE MASONRY	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	OF	OUTSIDE FACE
CO	COMPANY	OPNG	OPENING
COL	COLUMN	OPP	OPPOSITE
CONC	CONCRETE	OSB	ORIENTED STRAND BOARD
CONT	CONTINUOUS	P/C	PRECAST CONCRETE/PILE CAP
CONN	CONNECTION	P/T	POST TENSIONED
CONST	CONSTRUCTION	PCB	PRECAST CONCRETE BEAM
COORD	COORDINATE	PCC	PRECAST CONCRETE COLUMN
CSJ	CONSTRUCTION JOINT	PCF	POUNDS PER CUBIC FEET
CTR	CENTER	PEMB	PRE-ENGINEERED METAL BUILDING
CTRD	CENTERED	PEN	PENETRATION
CY	CUBIC YARD	P.J.	PANEL JOINT CENTERLINE
DEPT	DEPARTMENT	PL	PLATE
DET	DETAIL	PLF	POUNDS PER LINEAR FOOT
DIA	DIAMETER	PLMG	PLUMBING
DIAG	DIAGONAL	PLY	PLYWOOD
DIM	DIMENSION	PREFAB	PREFABRICATED
DIST	DISTANCE	PSF	POUNDS PER SQUARE FOOT
DL	DEAD LOAD	PSI	POUNDS PER SQUARE INCH
DN	DOWN	PSL	PARALLEL STRAND LUMBER
DWG	DRAWING	PT	PRESSURE TREATED
EA	EACH	RD	ROOF DRAIN
EF	EACH FACE	REF	REFERENCE
EHFA	EMERGENCY HURRICANE PROTECTION AREA	REINF.	REINFORCING
EJ	EXPANSION JOINT	REQD	REQUIRED
ELEC	ELECTRICAL/ELECTRICAL	REV	REVISION
EL ELEV	ELEVATION	RTU	ROOF TOP UNIT
ENGR	ENGINEER	SB	SOFFIT BEAM
EOD	EDGE OF DECK	SCHED	SCHEDULE
EOR	ENGINEER OF RECORD	S.F.	SQUARE FEET
EOS	EDGE OF SLAB	S.F.	STRIP FOUNDATION
EQ SP	EQUAL SPACED	SF	SIMILAR
ES	EACH SIDE	SPEC	SPECIFICATIONS
EW	EACH WAY	SQ	SQUARE
EXIST	EXISTING	SS	STAINLESS STEEL
EXP	EXPANSION	STD	STANDARD
EXT	EXTERIOR	STIFF	STIFFER
F	FOUNDATION	STL	STEEL
FD	FLOOR DRAIN	STRUCT	STRUCTURAL
FDN	FOUNDATION	SYM	SYMMETRICAL
FIN	FINISHED FLOOR	T.O.	TOP OF
FIN GR	FINISH GRADE	TB	TIE BEAM
FLR	FLOOR	T&B	TOP AND BOTTOM
FS	FAR SIDE	TDS	TURN DOWN SLAB
FT	FEET/FOOT	TE	THICKENED EDGE
FTG	FOOTING	TE	TEMPERATURE
GA	GAGE/GAUGE	TENS	TENSION
GALV	GALVANIZED	THD	THREAD/THREADED
GB	GRADE BEAM	THK	THICK
GC	GENERAL CONTRACTOR	THK	THICK
GEN	GENERAL	TOL	TOLERANCE
GL	GRID LINE	TRANS	TRANSVERSE
GS	GALVANIZED STEEL	TS	TUBE STEEL
HD	HOT DIPPED	T.S.	THICKENED SLAB
HDG	HOT DIPPED GALVANIZED	TWF	THICKENED WALL FOUNDATION
HORIZ	HORIZONTAL	TYP	TYPICAL
HSA	HEADED STUD ANCHOR	UNO	UNLESS NOTED OTHERWISE
HSS	HOLLOW STRUCTURAL SECTION	VERT	VERTICAL
HT	HEIGHT	VOL	VOLUME
I	MOMENT OF INERTIA	W	WIDE FLANGE SECTION
ID	INSIDE DIAMETER	W/	WITH
I.F.	INSIDE FACE	W/O	WITHOUT
IN.	INCH	WD	WOOD
INT	INTERIOR	WF	WALL FOOTING
JST	JOIST	WP	WATERPROOF
JT	JOINT	W.P.	WORKING POINT
K	KIP (1000 LB)	WS	WELDED STUD
KLF	KIPS PER LINEAL FOOT	WT	WEIGHT/STRUCTURAL TEE SECTION
KSI	KIPS PER SQUARE INCH	WWR	WELDED WIRE REINFORCEMENT
KWY	KEYWAY	@	AT DESIGNATION
		#	POUNDS / REBAR SIZE NUMBER
		+/-	PLUS OR MINUS
		L	ANGLE
		C.L.	CENTER LINE
		&	AND
		Sx	SECTION MODULUS
		Ix	MOMENT OF INERTIA

STRUCTURAL SYMBOLS AND LEGEND



NOTE: SYMBOLS AND LEGEND SHOWN ARE GENERIC AND DO NOT NECESSARILY INDICATE ACTUAL OCCURRENCES IN THESE DRAWINGS.

STRUCTURAL SHEET INDEX

SHEET #	SHEET TITLE	CURRENT REVISION		
		REVISION NUMBER	DATE	DESCRIPTION
S001	ABBREVIATIONS SYMBOLS AND SHEET INDEX			
S002	STRUCTURAL GENERAL NOTES			
S100	FOUNDATION PLAN			
S300	SECTIONS & DETAILS			
S301	SECTIONS & DETAILS			

ADC

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STATE OF FLORIDA
ALBERT JOSEPH COOPER III, R.A.
Architect • Seal/Signature

AA-C001315
AR-0010460

Project Documents for:

Project:
W. ORANGE VEHICLE MAINTENANCE BUILDING
704 BEULAH ROAD
WINTER GARDEN, FL 34787

Issue Date & Issue Description Drawn By Checked By

05.10.16	PD SET	MR	LBB
05.23.16	60% CD SET	MR	LBB
06.24.16	90% CD SET	MR	LBB
08.05.16	BID/PERMIT	MR	LBB

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

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CERT. OF AUTHORIZATION No. 27343
LAURA ISABEL BARBERO BUFFA
P.E. No. 74027

Sheet Title:

ABBREVIATIONS SYMBOLS AND SHEET INDEX

S001

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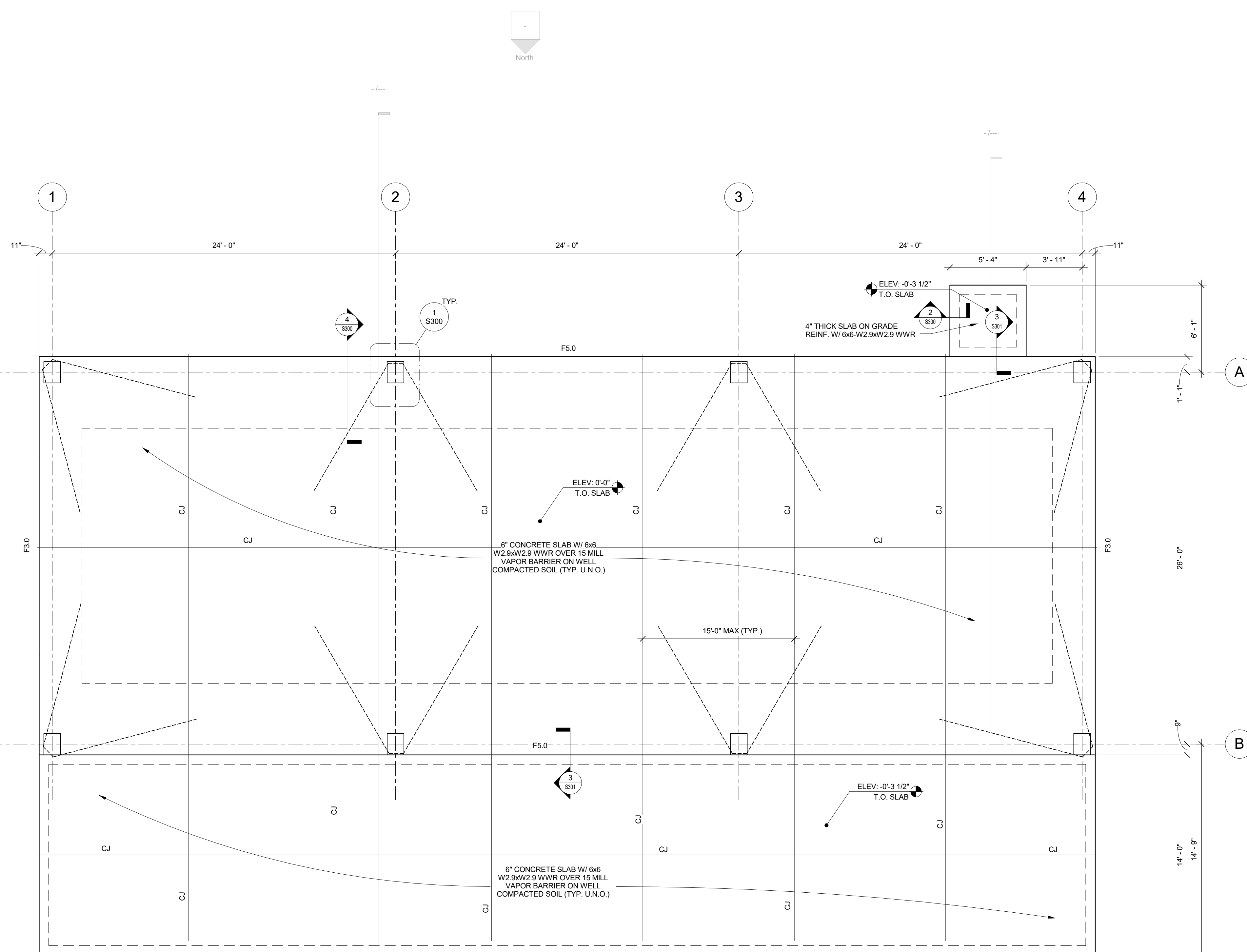
TO THE BEST OF THE ENGINEER'S KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014 ARCHITECTURE

FOUNDATION PLAN NOTES

- SEE GENERAL NOTES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- FOUNDATION LEGEND:
F3: 3'-0" WIDE x 2'-6" DEEP CONT. REINF. W/ #5 @ 12" O.C. EACH WAY TOP AND BOTTOM
F5: 5'-0" WIDE x 2'-6" DEEP CONT. REINF. W/ #6 @ 6" O.C. BOTTOM LONG BARS, #6 @ 4" O.C. BOTTOM SHORT HOOKED BARS, #5 @ 12" O.C. TOP SHORT AND LONG BARS.
- PROVIDE 2-#4 x 4'-0" ADDITIONAL SLAB REINFORCEMENT AT ALL RE-ENTRANT CORNERS.
- SEE PLAN FOR CONTROL JOINT LOCATION AS SHOWN "CJ". SAW CUT SLAB CONTROL JOINTS (C.J.) WITH IN 8 HOURS OF CONCRETE PLACEMENT.
- SEE ARCHITECTURAL DRAWINGS FOR EXTENT AND DIMENSIONS OF RAISED OR DEPRESSED SLAB AREAS, AND SLOPES.
- REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SLAB PENETRATIONS AND UNDER GROUND UTILITIES. INFORM THE ENGINEER OF RECORD OF ALL CONFLICTS THAT EXIST BETWEEN FOOTINGS AND UTILITIES.
- GENERAL CONTRACTOR TO ALIGN SLAB WITH EDGE OF PRE-ENGINEERED BUILDING. GC TO COORDINATE WITH PEMB DRAWINGS.

PRE-ENGINEERED METAL BUILDING NOTES

- DESIGN CRITERIA AS PER THE LATEST EDITION OF FLORIDA BUILDING CODE.
- THE METAL BUILDING MANUFACTURER SHALL PROVIDE REACTIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA TO THE ENGINEER OF RECORD TO VERIFY THAT ALL FOOTINGS ARE ADEQUATE TO SUPPORT THE BUILDING SELECTED USING THE DESIGN LOADS PRIOR TO REBAR SHOP DRAWINGS. IF THE FOOTINGS ARE NOT ADEQUATE, THE ENGINEER OF RECORD SHALL REVISE THE FOOTINGS AS REQUIRED.
- THE METAL BUILDING MANUFACTURER SHALL FURNISH DRAWINGS AND CALCULATIONS SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.
- DESIGN THE ROOF OF THE NEW MAINTENANCE BUILDING FOR ADDITIONAL DEAD LOAD AS FOLLOWS:
MECHANICAL ALLOWANCE: 4.0 PSF
SPRINKLER LOADS: 6.0 PSF
MANUF. TO COORD. W/EQUIPMENT MANUF. FOR ANY ADDITIONAL LOADS & MISC. STEEL REQUIRED FOR HANGING EQUIPMENT.
- SERVICEABILITY LIMITATIONS (50 YEAR RETURN):
BUILDING DRIFT: H/240
ROOF BEAMS: L/240 (OF TOTAL LOAD)
- ANY REQUIRED X-BRACING TO BE PROVIDED BY PEMB MANUFACTURER.



FOUNDATION AND SLAB PLAN
1/4" = 1'-0"



STATE OF FLORIDA
ALBERT JOSEPH COOPER III, R.A.
Architect • Seal/Signature

AA-C001315
AR-0010460

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- SPACE PLANNING
- INTERIOR DESIGN
- PLANNING

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400 E SOUTH STREET
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LBB	As indicated
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Sheet Title:
FOUNDATION PLAN

S100

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TO THE BEST OF THE ENGINEER'S KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE FLORIDA BUILDING CODE 2014 ARCHITECTURE

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OWNERSHIP OF INSTRUMENTS OF SERVICE:
ALL REPORTS, PLANS, SPECIFICATIONS, FIELD DATA AND NOTES AND OTHER DOCUMENTS, INCLUDING ALL DOCUMENTS ON ELECTRONIC MEDIA, PREPARED BY THE DESIGN PROFESSIONAL AS INSTRUMENTS OF SERVICE SHALL REMAIN THE PROPERTY OF THE DESIGN PROFESSIONAL.

GENERAL NOTES

I. GENERAL

- A. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, SHOP DRAWINGS AND SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE ALL ELEVATIONS AND DIMENSIONS INCLUDING BUT NOT LIMITED TO THOSE FOR OPENINGS IN WALLS AND IN ROOF AND FLOOR SYSTEMS, WITH THE OTHER DISCIPLINES. THE GENERAL CONTRACTOR SHALL COMPARE ALL CONTRACT DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN DISCIPLINES AND WITHIN A GIVEN DISCIPLINE TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

II. DESIGN CRITERIA

- A. THE CONTRACT DOCUMENTS ARE BASED ON THE REQUIREMENTS OF THE 1. FLORIDA BUILDING CODE 2014 2. DEAD LOADS 1. MISCELLANEOUS CEILING AND HANGING MECHANICAL LOADS SUCH AS DUCT WORK AND SPRINKLER PIPES: 10 PSF

Table with 3 columns: CATEGORY, UNIFORM LOAD (PSF), CONCENTRATED LOAD (LBS)

- D. DESIGN WIND LOADS: ULTIMATE WIND SPEED 145 MPH RISK CATEGORY C BUILDING TYPE: OPEN WITH OBSTRUCTED WIND FLOW PRE-ENGINEERED METAL BUILDING MANUFACTURER TO USE THE ABOVE INFORMATION FOR THE MWFRS DESIGN PRESSURES FOR THE DESIGN OF THE MAIN LATERAL MOMENT FRAMES.

- E. ULTIMATE COMPONENTS AND CLADDING WIND LOADS: SEE THIS SHEET FOR TABLE AND DIAGRAM. PROVISIONS SHALL BE MADE IN THE DETAILING, FABRICATION, AND ERECTION OF ALL CLADDING, PARTITIONS, WALLS, ETC. TO ACCOUNT FOR FLOOR TO FLOOR DEFLECTIONS AND LATERAL FRAME DEFLECTION

- F. BUILDING MOVEMENT AND DEFLECTIONS 1. THE BUILDING MOVEMENT SPECIFIED HEREIN IS ANTICIPATED TO OCCUR UNDER THE NOMINAL (UNFACTORED) LOADS SPECIFIED BY THE BUILDING CODE AND SHALL BE CONSIDERED BY THE CONTRACTOR IN THE PERFORMANCE OF THE WORK.

- III. LATERAL-FORCE RESISTING SYSTEM THE ABILITY OF THE STRUCTURAL FRAME TO RESIST LATERAL LOADS AND PROVIDE STABILITY UNDER GRAVITY LOADS DERIVES FROM THE COMPLETE INSTALLATION OF THE LATERAL-FORCE RESISTING SYSTEMS AND DIAPHRAGMS DESCRIBED BELOW. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL TEMPORARY BRACINGS REQUIRED TO MAINTAIN THE STABILITY AND SAFETY OF ALL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL ALL OF THESE SYSTEMS ARE COMPLETELY INSTALLED AND ALL DESIGNATED CONCRETE ELEMENTS (IF ANY) HAVE REACHED A MINIMUM OF 75% OF THEIR DESIGN STRENGTH. THE REQUIRED STRUCTURAL ELEMENTS ARE:

IV. FOUNDATIONS

- A. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL INVESTIGATION REPORT, GEOTECHNICAL ENGINEERING REPORT, WEST ORANGE MAINTENANCE BUILDING 7104 BEULAH ROAD, WINTER GARDEN, ORANGE COUNTY, FLORIDA TERRACON PROJECT NUMBER: H1165185, TERRACON CONSULTANTS, INC., JULY 1, 2016.

V. CONCRETE

- A. CONCRETE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS: CONCRETE 28 DAY COMPRESSIVE STRENGTH AND DENSITY REQUIREMENTS: USAGE STRENGTH (PSI) CONC. TYPE COMMENTS

- F. REINFORCEMENT DETAILING: 1. REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI 315. 2. PLACEMENT OF WELDED WIRE REINFORCEMENT: WHEREVER WELDED WIRE REINFORCEMENT IS SPECIFIED AS REINFORCEMENT, IT SHALL BE CONTINUOUS ACROSS THE ENTIRE CONCRETE SURFACE AND NOT INTERRUPTED BY BEAMS OR GIRDERS AP WWR ONE CROSSWIRE SPACING PLUS 2".

VI. POST-INSTALLED ANCHORS

- A. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. B. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.

XVII. SPECIALTY ENGINEERING REQUIREMENTS

THE FLORIDA STATE OF PROFESSIONAL ENGINEERS HAS ISSUED STATEMENTS ON RESPONSIBILITIES OF PROFESSIONAL ENGINEERS, IN ACCORDANCE WITH RULE 21H-19.00(3) CERTAIN COMPONENTS OF THE DRAWINGS REQUIRE THE WORK OF A SPECIALTY ENGINEER FOR THE DESIGN OF THOSE COMPONENTS.

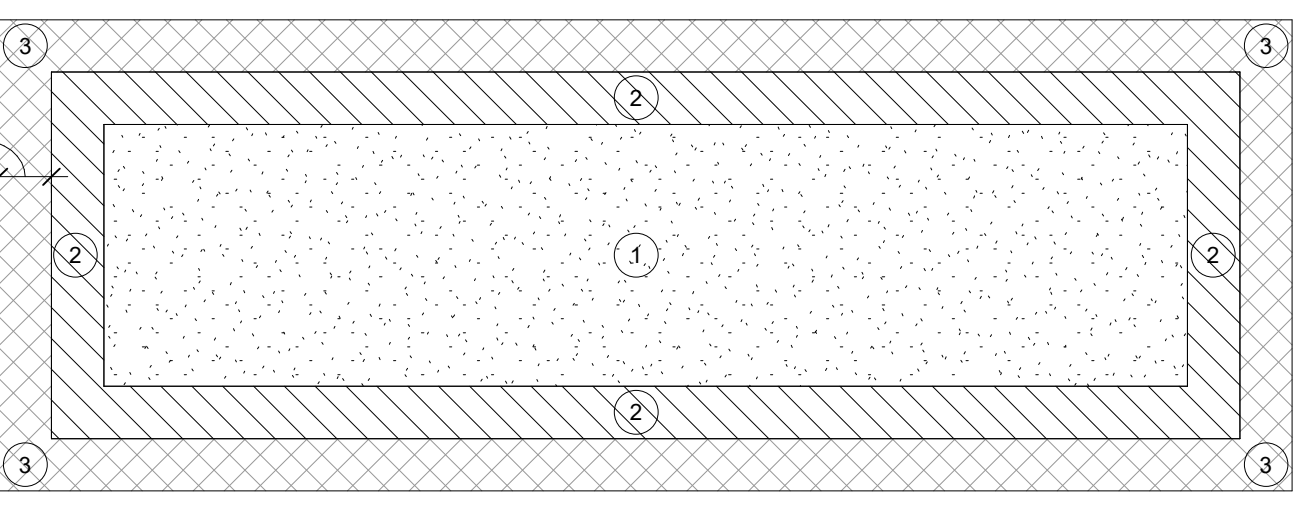
XVIII. SUBMITTALS

- A. THE GENERAL CONTRACTORS SHALL REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING FOR REVIEW. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND/OR ENGINEER AND HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED PRIOR TO FABRICATION. FABRICATION AND ERECTION SHALL BE FROM REVIEWED SHOP DRAWINGS.

ULTIMATE DESIGN WIND PRESSURE (PSF) COMPONENTS AND CLADDING

Table with 5 columns: AREA, ZONE, 10 SF, 20SF, 50 SF, 100 SF

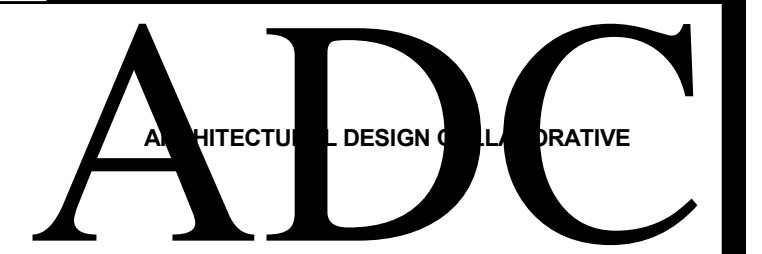
- NOTES: 1. ALL LOADS GIVEN IN THIS TABLE ARE ULTIMATE LOADS. 2. THE "a" WIDTH FOR EDGE STRIPS SHALL BE 3'-0"



ROOF WIND PLAN



CERTIFICATE OF AUTHORIZATION No. 27343 1214 E. CONCORD ST. ORLANDO, FLORIDA 32803 P. 407.4422697



845 N. PENNSYLVANIA AVENUE WINTER PARK, FLORIDA 32789 OFFICE: (407) 629-1188 FAX: (407) 388-1220 WWW.ADCINTERNATIONAL.NET

STATE OF FLORIDA AA-C001315 ALBERT JOSEPH COOPER III, R.A. AR-0010460 Architect + Seal/Signature

Project Documents for:



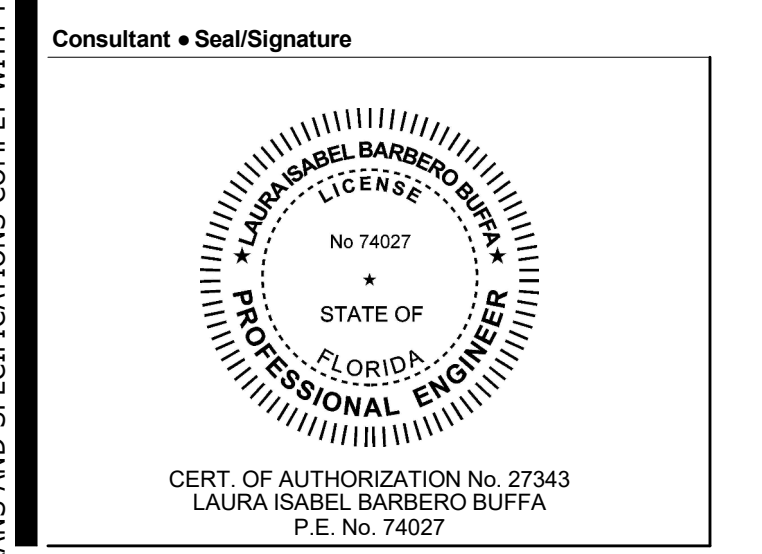
Project: W. ORANGE VEHICLE MAINTENANCE BUILDING 704 BEULAH ROAD WINTER GARDEN, FL 34787

Table with 5 columns: Issue, Date & Issue Description, Drawn By, Checked By

Table with 5 columns: Issue, Date & Issue Description, Drawn By, Checked By

Client Information ORANGE COUNTY CAPITAL PROJECTS DIVISION 400 E SOUTH STREET ORLANDO, FL 32801

Table with 2 columns: Project Number, Issue Date; Drawn By, Project Status; Checked By, Scale



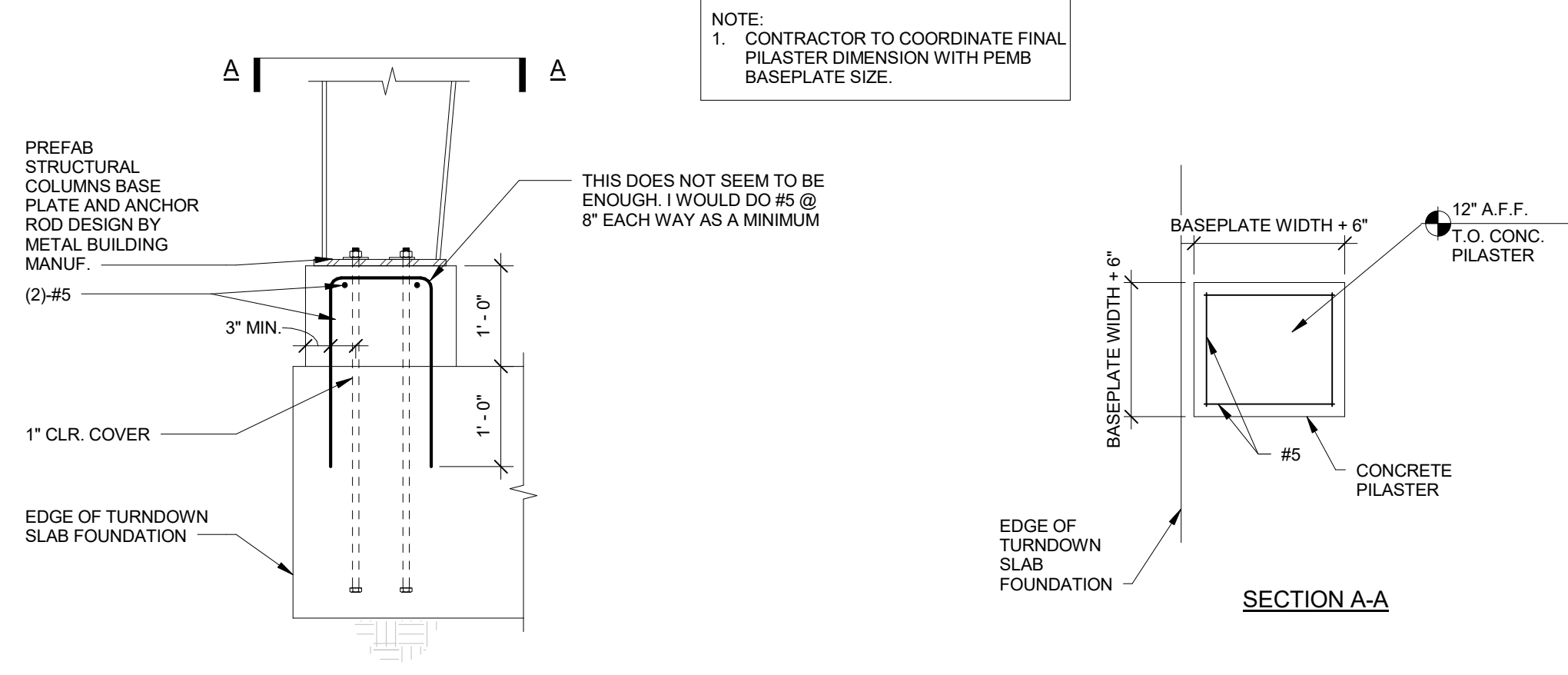
Sheet Title: STRUCTURAL GENERAL NOTES

S002

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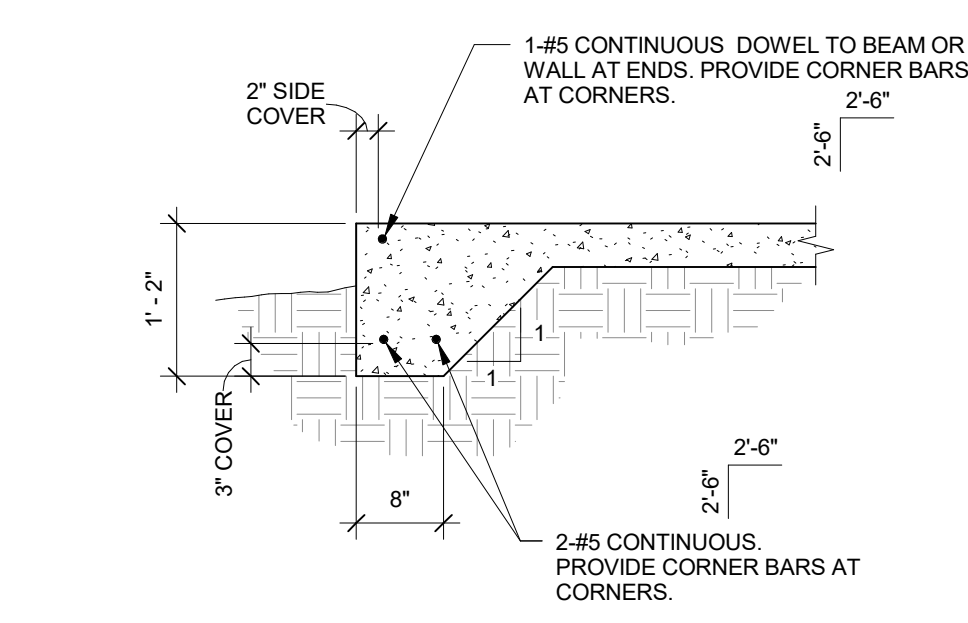
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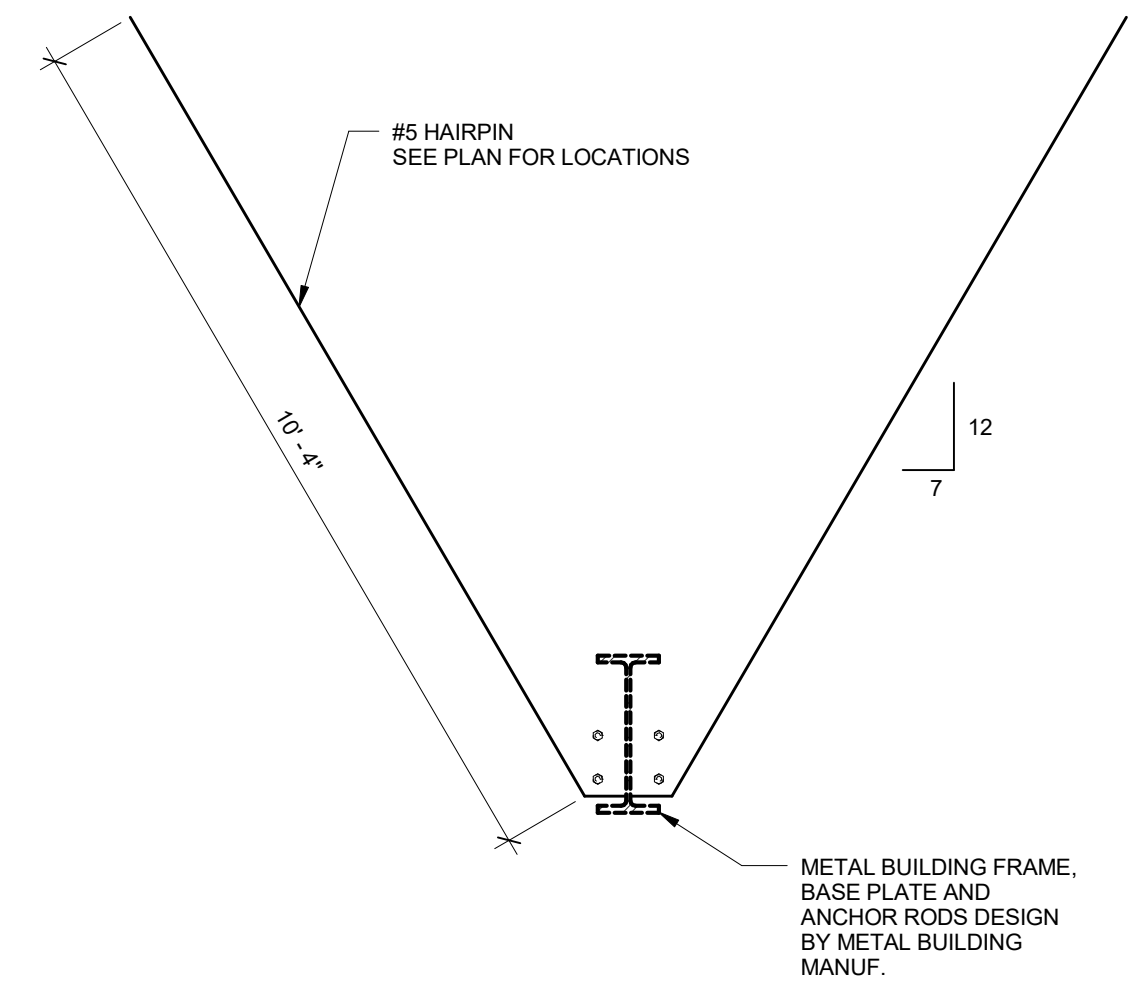
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S300 SCALE: N.T.S.



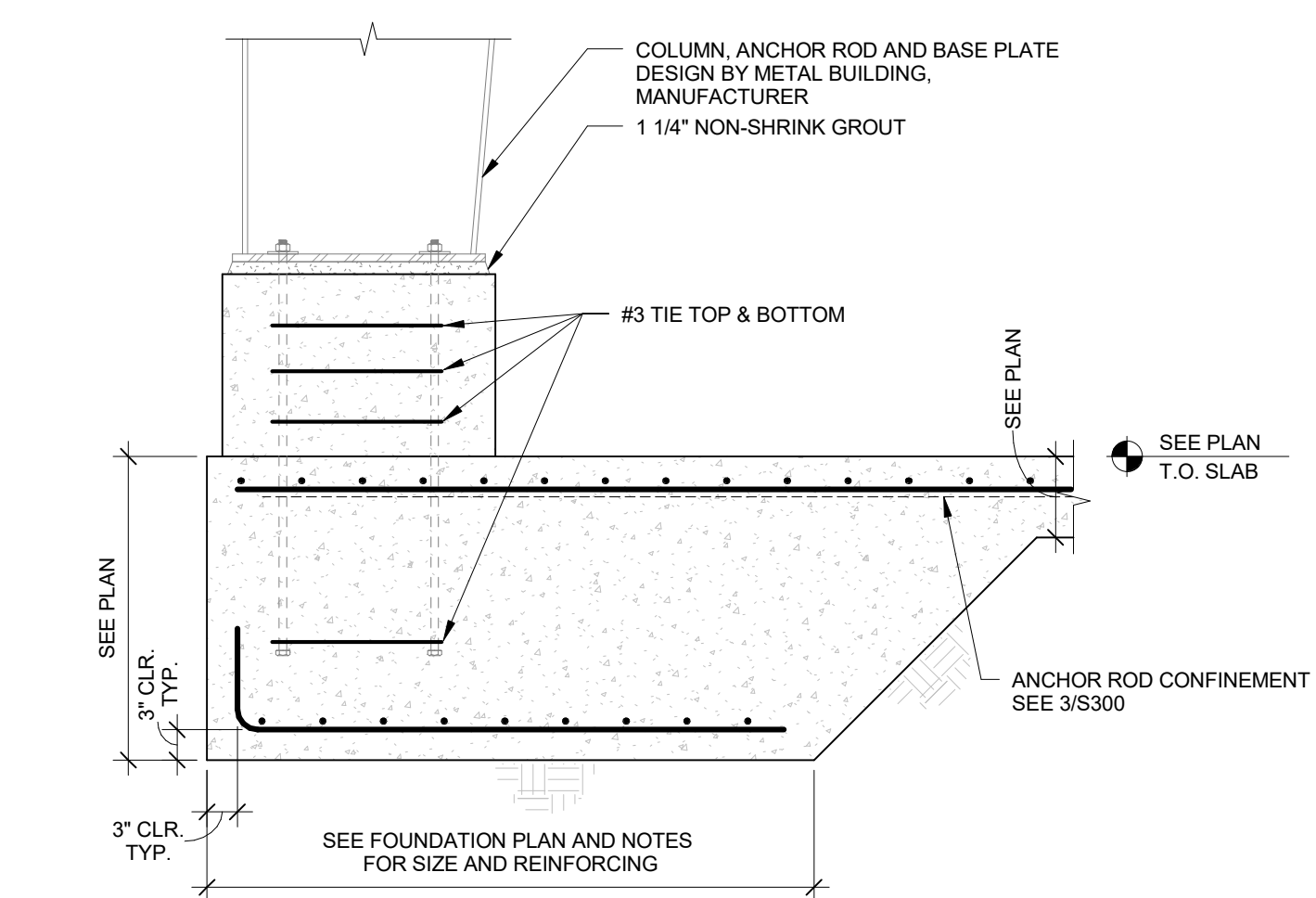
2 SLAB TURN DOWN

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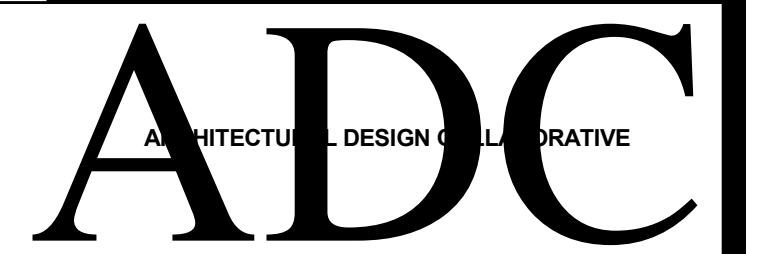
3 HAIR PIN DETAIL

S300 SCALE: N.T.S.



4 MAIN FRAME COLUMN

S300 SCALE: N.T.S.



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ALBERT JOSEPH COOPER III, R.A.
Architect • Seal/Signature

AA-C001315
AR-0010460



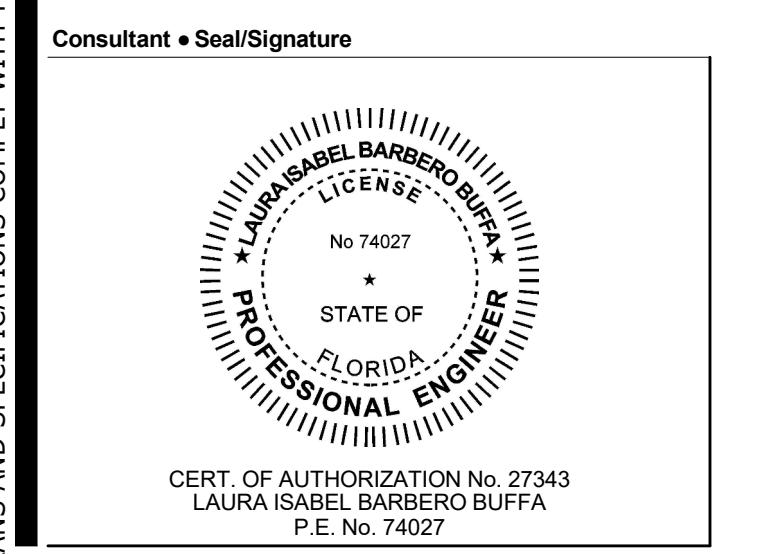
Project:
W. ORANGE VEHICLE MAINTENANCE BUILDING
704 BEULAH ROAD
WINTER GARDEN, FL 34787

Issue	Date & Issue Description	Drawn By	Checked By
	05.10.16 PD SET	MR	LBB
	05.23.16 60% CD SET	MR	LBB
	06.24.16 90% CD SET	MR	LBB
	08.05.16 BID/PERMIT	MR	LBB

SPACE PLANNING
INTERIOR DESIGN

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

Project Number	Issue Date
15265	08/05/2016
Drawn By	Project Status
MR	BID / PERMIT
Checked By	Scale
LBB	As indicated
File Name	



Sheet Title:
SECTIONS & DETAILS

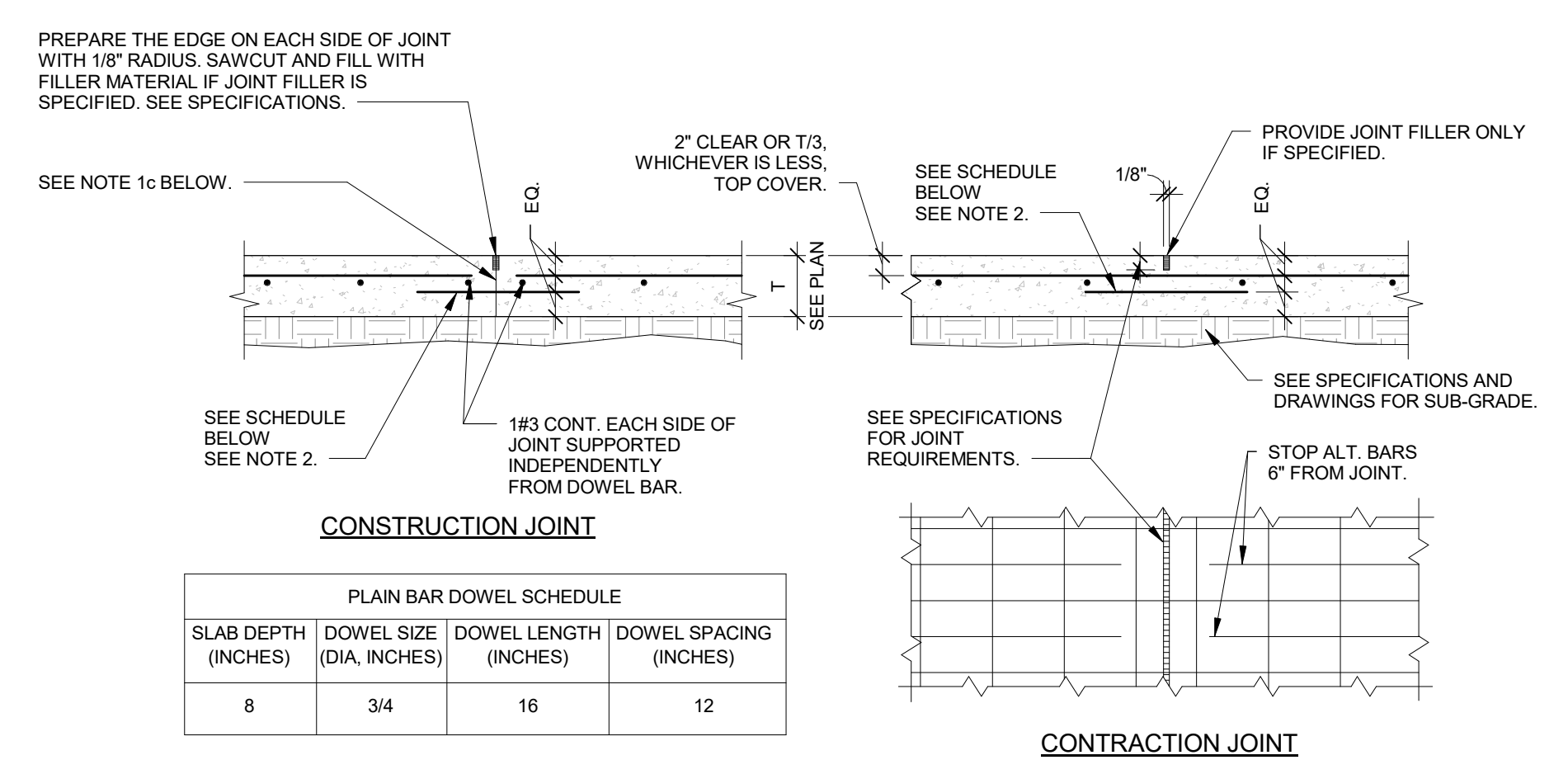
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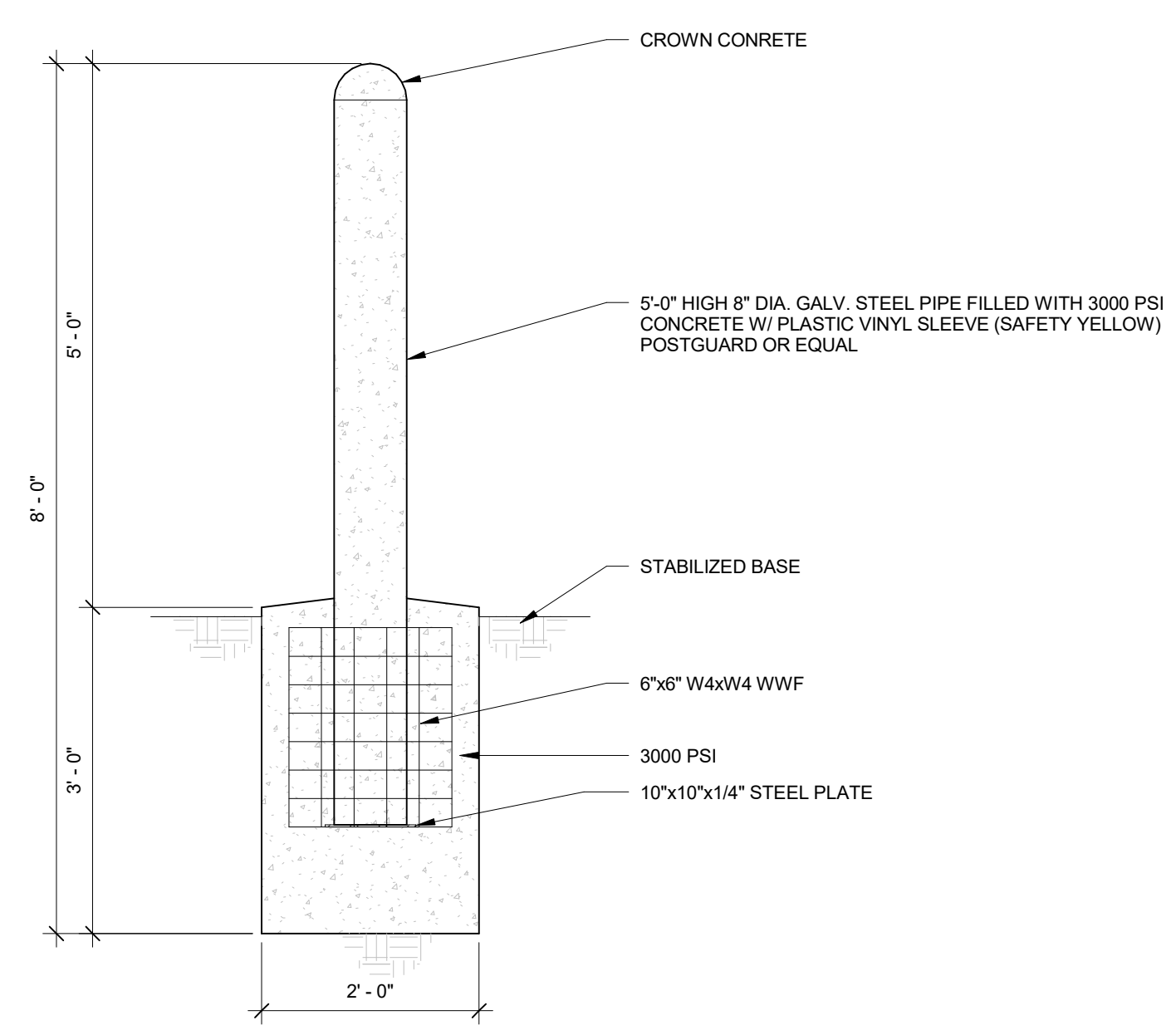
1. CONSTRUCTION JOINT NOTES:
- SEE PLAN FOR SLAB THICKNESS (T) AND REINFORCEMENT.
 - SLAB REINFORCEMENT SHALL BE CHAIRED BY SOIL SUPPORTED SLAB BOLSTERS.
 - BREAK BOND BETWEEN NEW AND PREVIOUSLY PLACED SLABBY SPRAYING OR PAINTING EXPOSED SIDES OF JOINT WITH A CURING COMPOUND, BONDBREAKER, OR FORM OIL.

2. DOWEL NOTES:
- LIGHTLY COAT THE EXPOSED END OF THE DOWELS WITH A PARAFFIN-BASED LUBRICANT, ASPHALT EMULSION, FORM OIL OR GREASE IMMEDIATELY BEFORE PLACING CONCRETE ON THE SECOND SIDE OF THE JOINT OR USE A PLASTIC OR METAL SLEEVE SPECIFICALLY MANUFACTURED FOR THIS PURPOSE, TO PREVENT A BOND BETWEEN THE DOWEL AND THE CONCRETE.
3. CONTRACTION JOINT NOTES:
- MAKE SAW CUT AS SOON AS SLAB IS ABLE TO SUPPORT WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB. SEE SPECIFICATIONS.

1 JOINTS AND REINFORCEMENT LOCATION - SLAB ON GRADE - HEAVY TRAFFIC

1
S301

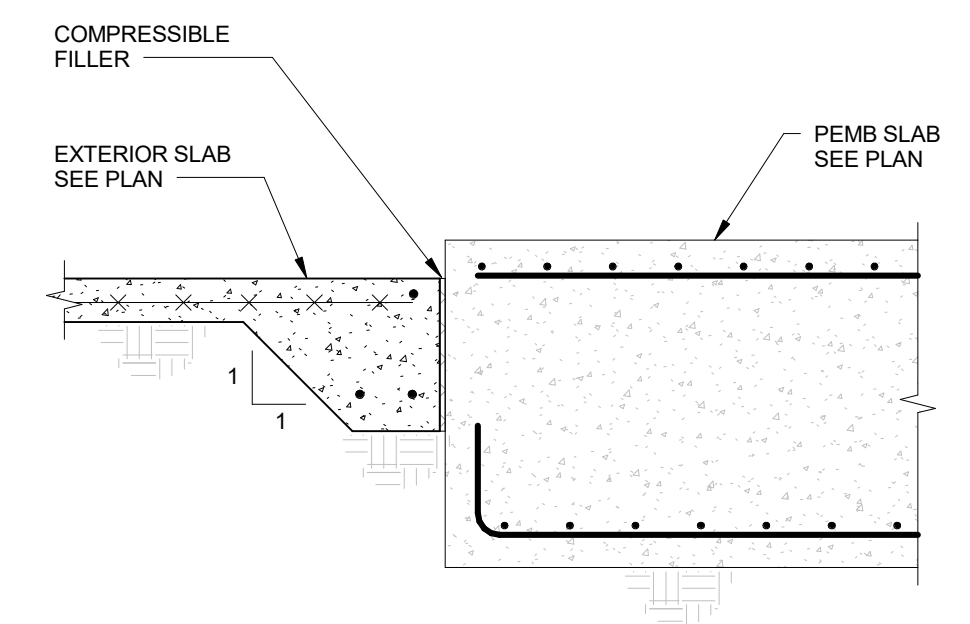
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2 BOLLARD DETAIL

2
S301

SCALE: N.T.S.



3 SECTION @ SLAB INTERFACE

3
S301

SCALE: N.T.S.

Project Documents for:

Project:
 W. ORANGE VEHICLE MAINTENANCE BUILDING
 704 BEULAH ROAD
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- SPACE PLANNING
- INTERIOR DESIGN
- PLANNING

Client Information
 ORANGE COUNTY CAPITAL PROJECTS DIVISION
 400 E SOUTH STREET
 ORLANDO, FL 32801

Project Number	Issue Date
15265	08/05/2016
Drawn By MR	Project Status BID / PERMIT
Checked By LBB	Scale 3/4" = 1'-0"
File Name	

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 LAURA ISABEL BARBERO BUFFA
 P.E. No. 74027

Sheet Title:
SECTIONS & DETAILS

S301






















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


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




LIGHTING FIXTURES

-  1'x4' FIXTURE
-  2'x2' FIXTURE
-  2'x4' FIXTURE
-  4' WALL MOUNT LUMINAIRE
-  4' WALL MOUNT LUMINAIRE, EMERGENCY
-  1'x4' FIXTURE, BATTERY/EMERGENCY
-  2'x2' FIXTURE, BATTERY/EMERGENCY
-  2'x4' FIXTURE, BATTERY/EMERGENCY
-  4' STRIP FIXTURE
-  4' STRIP FIXTURE, BATTERY/EMERGENCY
-  4' STRIP FIXTURE, WALL MOUNTED
-  4' STRIP FIXTURE, WALL MOUNTED, BATTERY/EMERGENCY
-  TRACK FIXTURE
-  CEILING MOUNTED RECESSED, DOWN LIGHT
-  CEILING MOUNTED RECESSED, EMERGENCY DOWN LIGHT
-  CEILING MOUNTED RECESSED, WALL WASHER (ARROW INDICATES DIRECTION OF WASH)
-  SURFACE MOUNTED LIGHTING FIXTURE
-  WALL MOUNTED SCONCE FIXTURE, BATTERY/EMERGENCY
-  EMERGENCY LIGHT FIXTURE
-  SINGLE FACE EXIT LIGHT FIXTURE ARROW INDICATES DIRECTION OF EGRESS
-  DOUBLE FACE EXIT LIGHT FIXTURE ARROW INDICATES DIRECTION OF EGRESS
























SWITCHES

-  SWITCH
-  SWITCH, 2 POLE
-  SWITCH, 3-WAY
-  MOTOR RATED SWITCH











LIGHTING CONTROL DEVICES

-  *PIR-CEILING MOUNT SENSOR 24 VDC/VAC, 11mA, WATTSTOPPER CI-205 OR EQUAL.
 -  *DUAL ULTRASONIC/PIR-CEILING MOUNT SENSOR, 24 VDC/VAC, 35mA, WATTSTOPPER DT-305 OR EQUAL.
 -  *DUAL ULTRASONIC/PIR-WALL MOUNT SENSOR, 24 VAC/VDC, 35mA, WATTSTOPPER DT-205 OR EQUAL.
 -  *ULTRASONIC-CEILING CORRIDOR MOTION SENSOR, 24 VDC/VAC, 40mA, WATTSTOPPER WT-2250 OR EQUAL.
 -  PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277 VAC, 800/1200W, WATTSTOPPER PW-100 OR EQUAL.
 -  DUAL ULTRASONIC/PIR-WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-100 OR EQUAL.
 -  DUAL ULTRASONIC/PIR-DUAL RELAY WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-200 OR EQUAL.
 -  DUAL ULTRASONIC/PIR-MULTI-WAY WALL SWITCH DECORATOR MOTION SENSOR, 120/277VAC, 800/1200W, WATTSTOPPER DW-103 OR EQUAL.
 -  POWER PACK 120/277 VAC; 20 AMPS, 225mA SECONDARY. WATTSTOPPER BZ-150 OR EQUAL.
- *FOR LOW VOLTAGE OCCUPANCY SENSORS, PROVIDE POWER PACK(S) 120/277 VAC; 20 AMPS, 225mA SECONDARY AS NEEDED FOR ZONE/AREA CONTROL. WATTSTOPPER BZ-150 OR EQUAL.

POWER DEVICES

-  SINGLE RECEPTACLE
-  DUPLEX RECEPTACLE
-  DOUBLE DUPLEX RECEPTACLE
-  ABOVE COUNTER DUPLEX RECEPTACLE
-  DUPLEX RECEPTACLE, HALF SWITCHED
-  SPECIAL PURPOSE RECEPTACLE
-  BLACK DUPLEX RECEPTACLE FOR COMPUTER WORKSTATION
-  BLACK QUAD RECEPTACLE FOR COMPUTER WORKSTATION
-  CEILING MOUNTED RECEPTACLE
-  RECESSED FLOOR RECEPTACLE
-  DUPLEX RECEPTACLE, GROUND FAULT
-  DUPLEX RECEPTACLE, GROUND FAULT, ABOVE COUNTER
-  QUAD RECEPTACLE, GROUND FAULT
-  POWER POLE
-  DISCONNECT SWITCH
-  JUNCTION BOX
-  FLOOR MOUNTED JUNCTION BOX
-  EQUIPMENT CONNECTION
-  DOOR BELL PUSH BUTTON
-  TRANSFORMER
-  DOOR BELL
-  MOTOR
-  GROUND BUS BAR

POWER DISTRIBUTION

-  120/208V PANELBOARD, RECESSED
-  120/208V PANELBOARD, SURFACE MOUNT
-  277/480V PANELBOARD, SURFACE MOUNT
-  277/480V PANELBOARD, RECESSED
-  FEEDER OR BRANCH CIRCUIT CONCEALED IN WALL, CEILING OR FLOOR
-  HOMERUN CONSISTING OF ONE SINGLE-PHASE, 1-POLE CIRCUIT: (2) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
-  HOMERUN CONSISTING OF ONE SINGLE-PHASE, 2-POLE CIRCUIT: (2) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
-  HOMERUN CONSISTING OF TWO SINGLE-PHASE CIRCUITS: (3) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATION ARE INDICATED.
-  HOMERUN CONSISTING OF THREE SINGLE-PHASE CIRCUITS: (4) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.
-  HOMERUN CONSISTING OF ONE THREE-PHASE CIRCUITS: (3) 12 AWG + (1) 12 AWG GND IN 3/4" CONDUIT, UNLESS OTHERWISE NOTED. PANELBOARD AND CIRCUIT DESIGNATIONS ARE INDICATED.

ABBREVIATIONS

- | | | | |
|-------|--|------|--------------------------------------|
| A | AMPERES | INC | INCANDESCENT |
| AE | AUDIO ENHANCEMENT | JB | JUNCTION BOX |
| AFC | ABOVE FINISHED CEILING | KV | KILO-VOLTS |
| AFF | ABOVE FINISHED FLOOR | KVA | KILO-VOLTS-AMPERES |
| AFG | ABOVE FINISHED GRADE | KVAR | KILO-VOLTS-AMPERES REACTIVE CAPACITY |
| AIC | AMPERES INTERRUPTING CAPACITY | KW | KILO-WATTS |
| AL | ALUMINUM | KWH | KILO-WATT-HOURS |
| AWG | AMERICAN WIRE GAUGE | LTG | LIGHTING |
| BFC | BELOW FINISHED CEILING | m | METER |
| BFG | BELOW FINISHED GRADE | mm | MILLIMETER |
| C | CONDUIT | MAX | MAXIMUM |
| CAB | CABINET | MCB | MAIN CIRCUIT BREAKER |
| CFCI | CONTRACTOR FURNISHED CONTRACTOR SUPPLIED | MCC | MOTOR CONTROL CENTER |
| CKT | CIRCUIT | MCP | MOTOR CIRCUIT PROTECTOR |
| CLS | CEILING | MFR | MANUFACTURER |
| CL | CENTERLINE | MH | METAL HALIDE |
| CT's | CURRENT TRANSFORMERS | MIN | MINIMUM |
| CU | COPPER | MISC | MISCELLANEOUS |
| DISC | DISCONNECT(ING) | MTR | MOTOR |
| DWG | DRAWING(S) | MTD | MOUNTED |
| EA | EACH | MTG | MOUNTING |
| EF | EXHAUST FAN | NEC | NATIONAL ELECTRICAL CODE |
| EMT | ELECTRICAL METALLIC TUBING | OFOI | OWNER FURNISHED OWNER INSTALLED |
| EQUIP | EQUIPMENT | PNL | PANEL |
| EUH | ELECTRIC UNIT HEATER | PSI | PULL STATION INSIDE |
| EWC | ELECTRIC WATER COOLER | PVC | POLYVINYL CHLORIDE |
| EWH | ELECTRIC WATER HEATER | REC | RECEPTACLE |
| EXH | EXHAUST | RGS | RIGID GALVANIZED STEEL |
| EXIST | EXISTING | TEL | TELEPHONE |
| EXP | EXPLOSION PROOF | TYP | TYPICAL |
| FA | FIRE ALARM | UNON | UNLESS OTHERWISE NOTED |
| FLA | FULL LOAD AMPERES | V | VOLTS |
| FLUOR | FLUORESCENT | VA | VOLT-AMPERES |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | VFD | VARIABLE FREQUENCY DRIVE |
| GFP | GROUND FAULT PROTECTION | W | WATTS |
| GND | GROUND | WP | WEATHER PROOF |
| HGT | HEIGHT | XFMR | TRANSFORMER |
| HID | HIGH INTENSITY DISCHARGE | | |
| HPS | HIGH PRESSURE SODIUM | | |
| HOA | HAND-OFF-AUTOMATIC | | |
| HP | HORSEPOWER | | |
| HVAC | HEATING/VENTILATING/AIR CONDITIONING | | |
| HV | HIGH VOLTAGE | | |

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	DESIGN SELECTION	VOLTS	LAMPS/FIXT.
A	PENDANT MOUNTED LED WRAPAROUND WITH ACRYLIC LENS	ILP # WTZ8 60WLED UNIV 50 RALF OR APPROVED EQUAL	UNIV	LED
B	WALL MOUNTED FULL CUT-OFF LED FLOODLIGHT	ILP # WPCM 60WLED UNIV 4000K PC OR APPROVED EQUAL	UNIV	LED
C	SMALL WALL MOUNTED LED LIGHT FIXTURE	ILP # WPSP 20WLED UNIV 40 PC OR APPROVED EQUAL	UNIV	LED

NOTE: SOME SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.



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Project Documents for:



Project:
W. ORANGE VEHICLE MAINTENANCE BUILDING

704 BEULAH ROAD
WINTER GARDEN, FL 34787

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	05.23.16 60% CD SET	JUB	JLM
	06.24.16 90% CD SET	JUB	JLM
	08.05.16 BID/PERMIT	JUB	JLM

• SPACE PLANNING

• INTERIOR DESIGN

• PLANNING

Client Information
ORANGE COUNTY CAPITAL PROJECTS DIVISION
400 E SOUTH STREET
ORLANDO, FL 32801

• ARCHITECTURE

Project Number 15265	Issue Date 08/05/2016
Drawn By JUB	Project Status BID / PERMIT
Checked By JLM	Scale NTS

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JUSTIN L. MUNDELL-FL70700

Sheet Title:

ELECTRICAL SYMBOLS LEGEND
AND GENERAL NOTES

E-001

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Project Documents for:
ORANGE COUNTY
 FLORIDA

Project:
 W. ORANGE VEHICLE MAINTENANCE BUILDING
 704 BEULAH ROAD
 WINTER GARDEN, FL 34787

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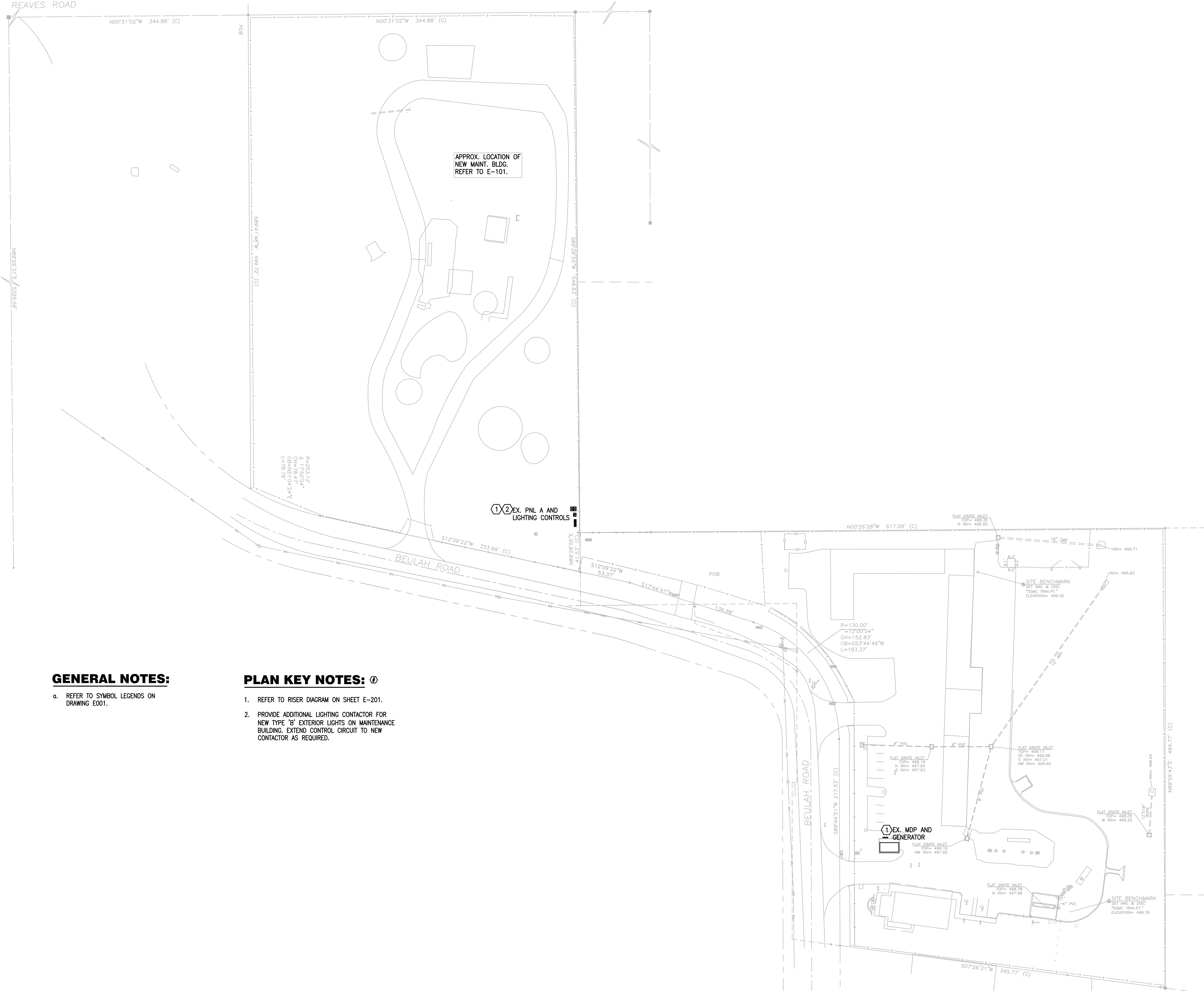
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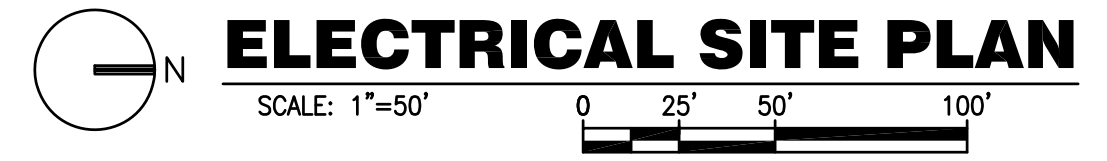
JUSTIN L. MUNDELL-FL70700

Sheet Title:
ELECTRICAL SITE PLAN



GENERAL NOTES:
 a. REFER TO SYMBOL LEGENDS ON DRAWING E001.

PLAN KEY NOTES:
 1. REFER TO RISER DIAGRAM ON SHEET E-201.
 2. PROVIDE ADDITIONAL LIGHTING CONTACTOR FOR NEW TYPE 'B' EXTERIOR LIGHTS ON MAINTENANCE BUILDING. EXTEND CONTROL CIRCUIT TO NEW CONTACTOR AS REQUIRED.



ELECTRICAL SITE PLAN

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FLORIDA

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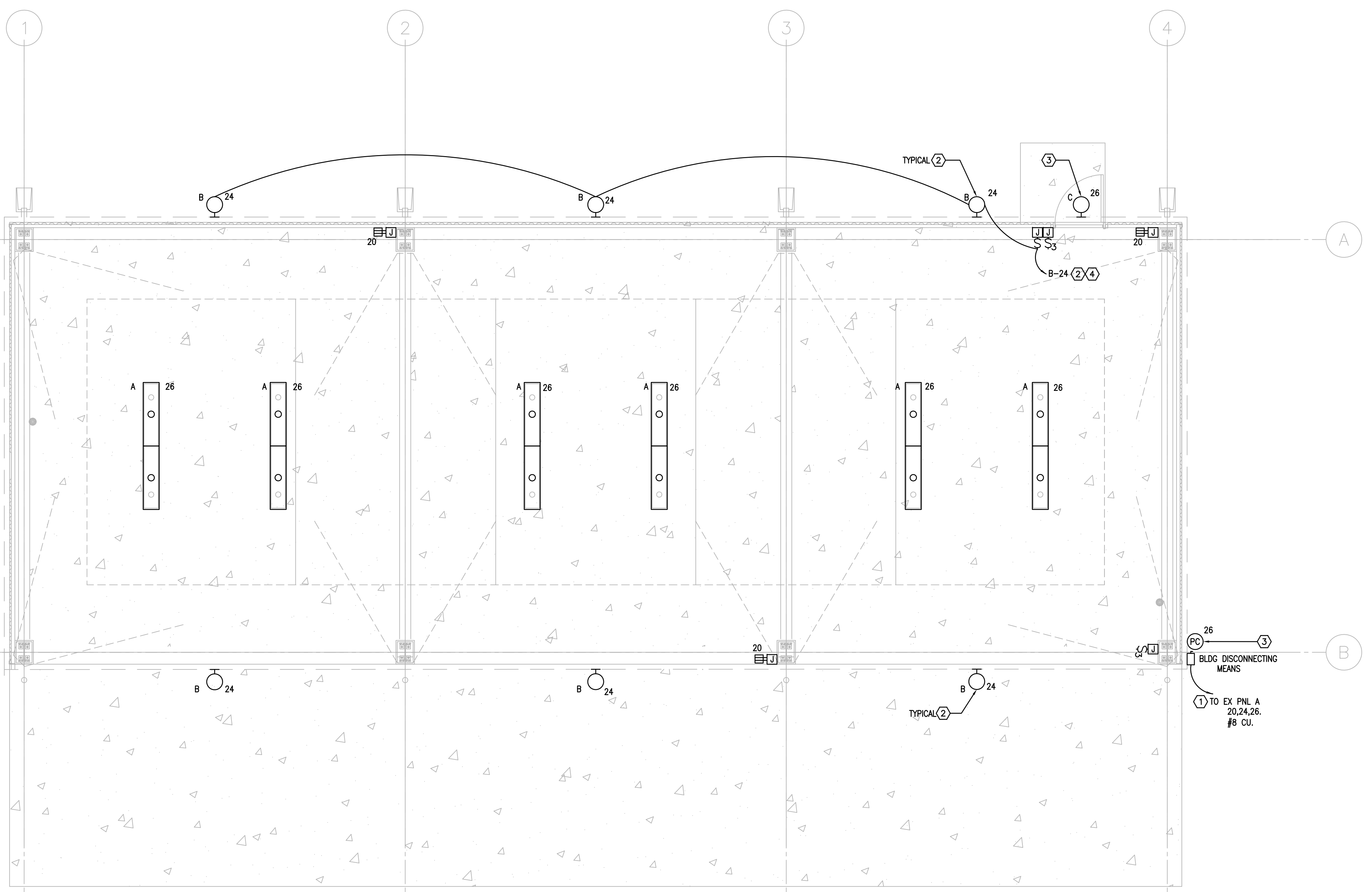
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MEP CONSULTING ENGINEERS
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SGMA # 2015-248

JUSTIN L. MUNDELL-FL70700



CIRCUIT NO.	IDENTIFICATION	LOAD/PHASE (KVA)	CIRCUIT BREAKER			LOAD/PHASE (KVA)			IDENTIFICATION	CIRCUIT NO.
			TRIP	P	P	TRIP	A	B		
1	TIMER	E 0.50	20	1	1	20	0.18	R	GFI RECEPT	2
3	SPARE	S	20	1	1			S	SPACE	4
5	POLE GFI RECEPT	R	20	1	1	20	0.10	L	LIGHT	6
7	POLE LIGHTS	L 1.50	20	2	1	20		S	SPARE	8
9	SPARE	S	20	1	1	20		S	SPARE	10
11	SPARE	S	20	1	1	20		S	SPARE	12
13	SPARE	S	20	1	1	20		S	SPARE	14
15	SURGE PROTECTION		30	3	1	20		S	SPARE	16
17	SPARE	S	1	1	1	20		S	SPARE	18
19	NEW GFI RECEPTS		1	1	20	0.54		R	NEW GFI RECEPTS	20
21	SPARE	S	1	1	20			S	SPARE	22
23	NEW FLOOD LIGHTS		1	1	20	0.60		L	NEW FLOOD LIGHTS	24
25	NEW LIGHTS		1	1	20	1.20		L	NEW LIGHTS	26
27										28
29										30

CONN.	LOAD	DEMAND	DEMAND
	LOAD	FACTOR	FACTOR
LIGHTING (L)	4.50	1.25	0.13
RECEPTACLES 15T 10 KVA (R)	1.80	1.00	1.80
RECEPTACLES OVER 10KVA (R)	0.00	0.50	0.00
HVAC EQUIPMENT (H)	0.00	1.00	0.00
APPLIANCES (A)	0.00	1.00	0.00
EQUIPMENT (E)	0.50	1.00	0.50
LARGEST MOTOR (M)	0.00	1.25	0.00
OTHER (O)	0.00	1.00	0.00
SPARE (S)	0.00	1.00	0.00
LINKED PANEL (P)	INCLUDED ABOVE TOTALS		

TOTAL CONNECTED KVA:	7.20
TOTAL CONNECTED AMP/PH:	17
TOTAL DEMAND KVA:	8.43
TOTAL DEMAND AMP/PH:	20

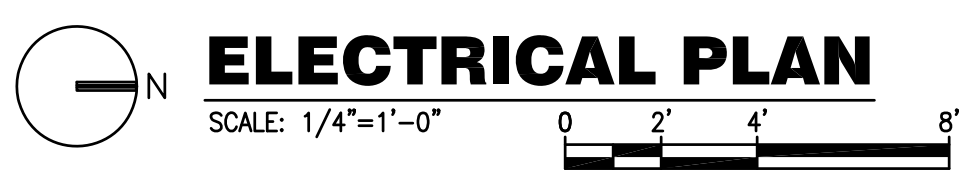
GENERAL NOTES:
1. PROVIDE NEW C.B FOR THIS NEW CIRCUIT, AVOID PHASE 'B' HIGH-LEG.

GENERAL NOTES:

- a. REFER TO SYMBOL LEGENDS ON DRAWING E001.
- b. REFER TO SPECIFICATION MANUAL.

PLAN KEY NOTES:

- ROUTE TO EXISTING PANEL A, REFER TO SITE PLAN FOR APPROXIMATE LOCATION. PROVIDE NEW 240 VOLT 3 POLE, S/N, NEMA 3R DISCONNECT TO SERVE AS BUILDING DISCONNECTING MEANS. PROVIDE MAIN DISCONNECT LABEL.
- ROUTE FLOOD LIGHTING CIRCUIT VIA EXISTING LIGHTING CONTACTOR ADJACENT TO PANEL A SO THAT THE FLOOD LIGHTS ARE CONTROLLED WITH THE EXISTING POLE LIGHTING CIRCUITS. PROVIDE ADDITIONAL SINGLE POLE CONTACTOR FOR THIS CIRCUIT.
- PROVIDE PHOTOCELL FOR FIXTURE AT MAIN-DOOR SO LIGHT OPERATES FROM DUSK TO DAWN.
- ROUTE TIME CLOCK CONTROLLED CIRCUIT VIA SWITCH FOR REAR BUILDING LIGHT OVERRIDE. THIS WAY LIGHTS MAY BE TURNED OFF AS NECESSARY.



Sheet Title:
ELECTRICAL PLAN

E-101

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GENERAL NOTES:

- REFER TO SYMBOL LEGEND ON SHEET E-001.
- REFER TO BOOK SPECIFICATIONS.

PLAN KEY NOTES:

- PANEL 'A' IS FED VIA A 90 AMP CIRCUIT BREAKER IN MDP WHICH IS BACKED UP BY GENERATOR POWER.
- "MAIN DISCONNECT" SIGNAGE PER BUILDING DEPARTMENT REQUIREMENTS.
- 120/240V, 3Ø, DELTA, 600 AMP MAIN DISCONNECT SWITCH WITH 600 AMP D.E. FUSES, SOLID NEUTRAL AND NEMA-3R ENCLOSURE.
- CATERPILLAR OLYMPIAN GENERATOR SET: #D200P4, 120/240V, 3Ø, DELTA, 4-WIRE, 200KW (250 KVA) STANDBY WITH W.P. ENCLOSURE, BATTERY, BATTERY CHARGER, CRITICAL SILENCING MUFFLER, 600 AMP SHUNT TRIP OPERATED MAIN CIRCUIT BREAKER, 24 HOUR (AT FULL LOAD) BASE TANK WITH RUPTURE ENCLOSURE AND ALARMS, REMOTE ANNUNCIATOR AND ALL ACCESSORIES FOR A FULLY OPERATING SYSTEM (SEE SPECIFICATIONS).
- AUTOMATIC TRANSFER SWITCH: ASCO #940-3-600-X (120/240, 3Ø, S.N.), 7-NEMA3R WITH OPTIONS PER SPECIFICATIONS.
- CABINET PER POWER COMPANY REQUIREMENTS.
- "MDP" FEEDER.
- LIGHTNING ARRESTOR ON LINE SIDE OF SERVICE.
- 60 KA SURGE SUPPRESSOR CONNECTED TO LOAD SIDE OF DISCONNECT SWITCH (SEE SPECIFICATIONS).
- 50 KA SURGE SUPPRESSOR CONNECTED TO LOAD SIDE OF PANEL OF ATS.
- 30A, 2-POLE BREAKER IN EXISTING PANEL FOR SURGE SUPPRESSOR.
- GROUNDING SYSTEM.
- SHUNT TRIP SWITCH.

LOAD CALCULATIONS

58 KW EXISTING PEAK DEMAND
 x 1.25 POWER FACTOR
 = 73 KVA
 73 KVA x 1.25 (PER NEC 220.87)
 = 91 KVA EXISTING LOAD (218 AMPS)

91 KVA EXISTING LOAD
 + 2 KVA ADDED MAINTENANCE BLDG CKTS
 = 93 KVA ANTICIPATED NEW LOAD
 = 224 AMPS ON EXISTING 600 AMP SERVICE

Project Documents for:



Project:
 W. ORANGE VEHICLE MAINTENANCE BUILDING
 704 BEULAH ROAD
 WINTER GARDEN, FL 34787

Issue	Date & Issue Description	Drawn By	Checked By
05.10.16	PD SET	JUB	JLM
05.23.16	60% CD SET	JUB	JLM
06.24.16	90% CD SET	JUB	JLM
08.05.16	BID/PERMIT	JUB	JLM

Client Information
 ORANGE COUNTY CAPITAL PROJECTS DIVISION
 400 E SOUTH STREET
 ORLANDO, FL 32801


Project Number: 15265
 Issue Date: 08/05/2016

Drawn By: JUB
 Project Status: BID / PERMIT

Checked By: JLM
 Scale: NTS

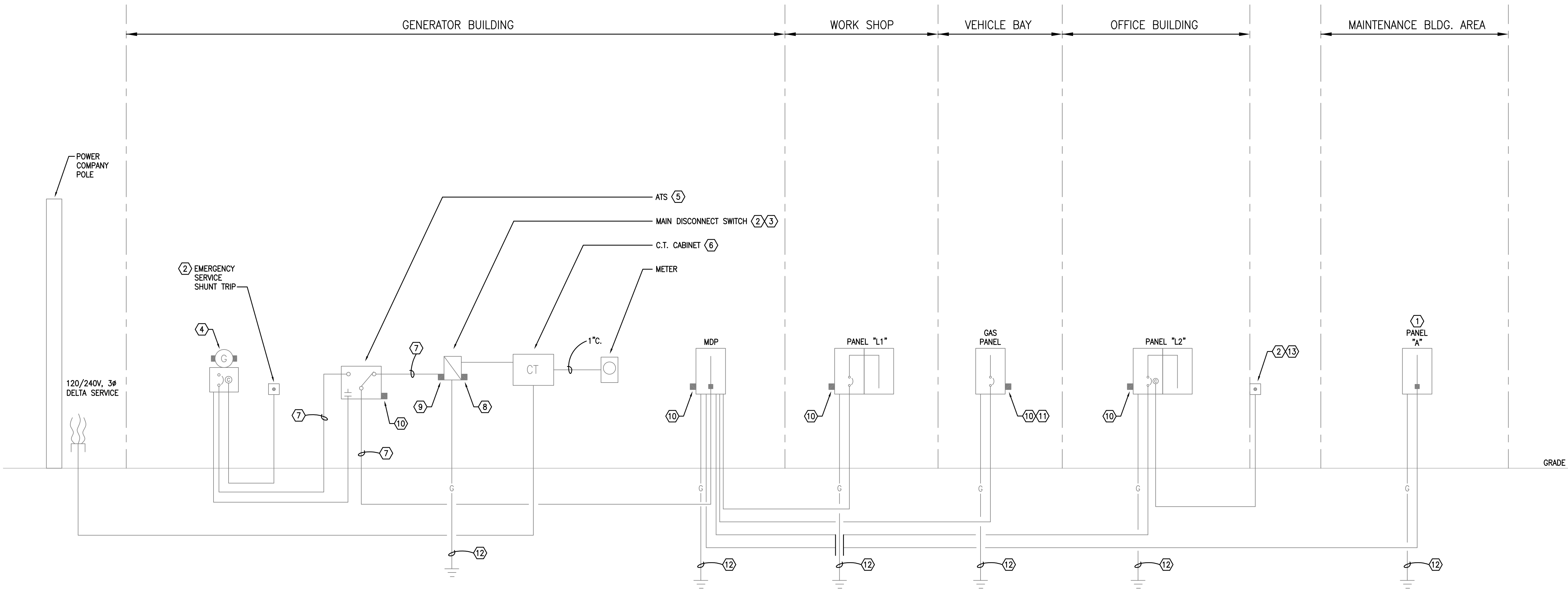
File Name:

Consultant Seal/Signature



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EXISTING ELECTRICAL RISER DIAGRAM
 NOT TO SCALE

Sheet Title:
**EXISTING ELECTRICAL
 RISER DIAGRAM**

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