

10. Not available in 480V.

PPT_PureForm_post_top 04/22 page 1 of 5

3. Extended lead times apply. Contact factory for

4. Not available with other control options.





example: PPT-196L-450-NW-G2-T3-1-UNV-DGY

EBP Emergency (50/60Hz)

battery pack 1,4,5,7 **HVU** 347-480V

(50/60Hz)



ELGIN SPORTS COMPLEX **EXPANSION** 475 Sports Way, Elgin, Illinois 60123

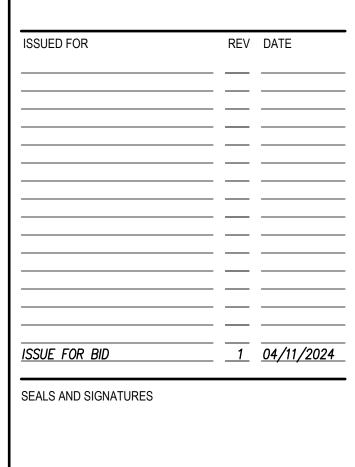
VOLUME 1 OF 2

Owner: THE CITY IN THE SUBURBS

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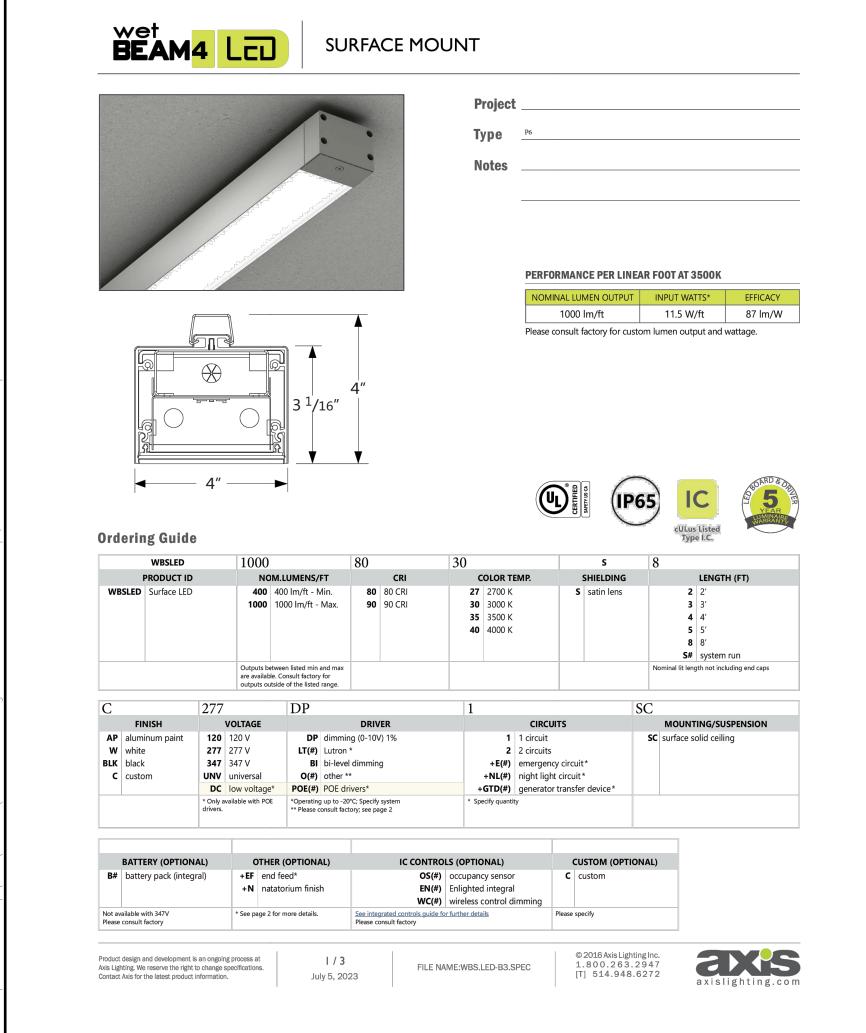


DRAWING TITLE

LIGHTING FIXTURE PRODUCT DATA

SCALE: N.T.S.

PROJECT NUMBER E-503 DRAWING NUMBER





Elgin Soccer Complex Elgin, IL

Lighting System

Pole/Fixture Su	ummary					
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
S1-S2	90'	90'	6	TLC-LED-1500	8.46 kW	А
S3-S4	100'	100'	1	TLC-LED-1200	1.17 kW	Α
		100'	1	TLC-LED-1200	1.17 kW	В
		100'	5	TLC-LED-1500	7.05 kW	А
		100'	5	TLC-LED-1500	7.05 kW	В
S5-S6	100'	100'	1	TLC-LED-1200	1.17 kW	В
		100'	2	FUTURE	2.34 kW	С
		100'	4	FUTURE	5.64 kW	С
		100'	5	TLC-LED-1500	7.05 kW	В
6			60		82.20 kW	

Circuit Summary				
Circuit	Description	Load	Fixture Qty	
Α	Soccer 3	33.36 kW	24	
В	Soccer 2	32.88 kW	24	
С	Soccer 1	15.96 kW	12	

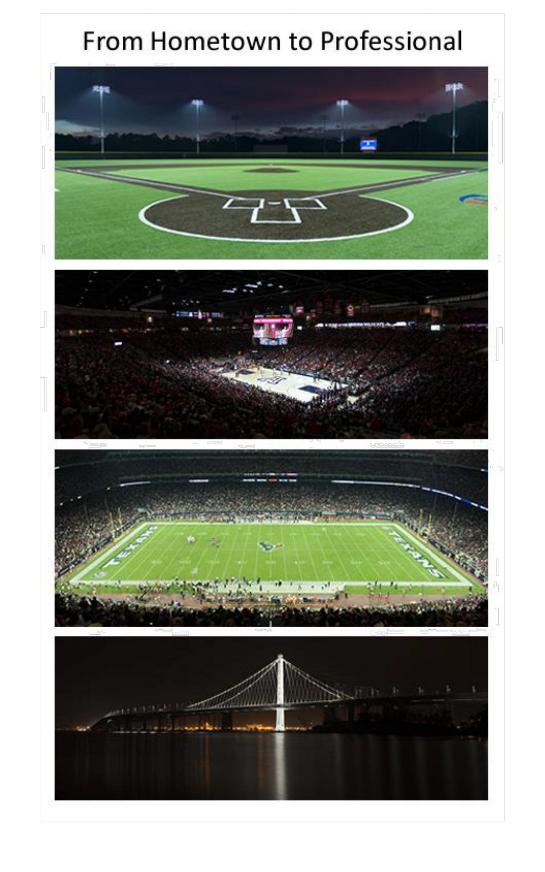
Fixture Type Summary							
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	6
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	42

	Single Luminaire Amperage Draw Chart								
Driver Specifications		Line Amperage Per Luminaire							
	(.90 min power factor)			(n	nax drav	v)			
	Single Phase Voltage	208	220	240	277	347	380	480	
	Siligle Filase Voltage	(60)	(60)	(60)	(60)	(60)	(60)	(60)	
	TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0	
	TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6	

Light Level Summary

Grid Name Calculation Metric				Illumina	ation		Circuits	Fixture
Gila Name	Calculation Wethic	Ave	Min	Max	Max/Min	Ave/Min	Circuits	Qty
Blanket Grid	Horizontal Illuminance	8.02	0	43	0.00	-	A,B,C,D	60
North Parking	Horizontal	0	0	0	0.00		D	0
Road Spill	Horizontal	0	0	0	0.00		A,B,C,D	60
Road Spill	Max Vertical Illuminance Metric	0.01	0	0	0.00		A,B,C,D	60
Road Spill-Candela	Max Candela (by Fixture)	483	0	5416	0.00		A,B,C,D	60
Soccer 1	Horizontal Illuminance	0	0	0	0.00		С	12
Soccer 2	Horizontal Illuminance	31.3	22	37	1.67	1.42	В	24
Soccer 3	Horizontal Illuminance	31.8	22	36	1.68	1.45	Α	24

ENGINEERED DESIGN By: Mitchell Thys • File #225661D_1_BaseBid • 25-Jan-24



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PROJECT SUMMARY

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ELGIN SPORTS COMPLEX EXPANSION 475 Sports Way, Elgin, Illinois 60123

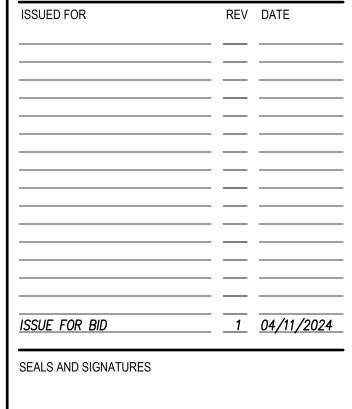
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DRAWING TITLE
SPORTS LIGHTING DETAILS

14106

E-600

SCALE: N.T.S. PROJECT NUMBER

J.U.L.I.E.

CALL 1-800-892-0123

48 Hours (2 working days) Before You Dig.

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ISSUE FOR BID		04/11/2024
SEALS AND SIGNATURES		

KEY PLAN	
	PROJECT NORTH

SPORTS LIGHTING DETAILS

SCALE: N.T.S.

SCALE

14106

PROJECT NUMBER

E-601



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SEALS AND SIGNATURES		
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KEY PLAN	
	PROJECT NORTH

DRAWING TITLE
SPORTS LIGHTING DETAILS

SCALE: N.T.S. PROJECT NUMBER E-602

14106

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SEALS AND SIGNATURES	ISSUE FOR BID	1	04/11/2024
	SEALS AND SIGNATURES		

KEY PLAN	
	PROJECT NORTH

DRAWING TITLE
SPORTS LIGHTING DETAILS

SCALE: N.T.S.

14106 PROJECT NUMBER J.U.L.I.E.

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E-603 DRAWING NUMBER

VOLUME 1 OF 2

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KEY PLAN

PROJECT NORTH

DRAWING TITLE SPORTS LIGHTING DETAILS

SCALE: N.T.S.

SCALE

PROJECT NUMBER

14106

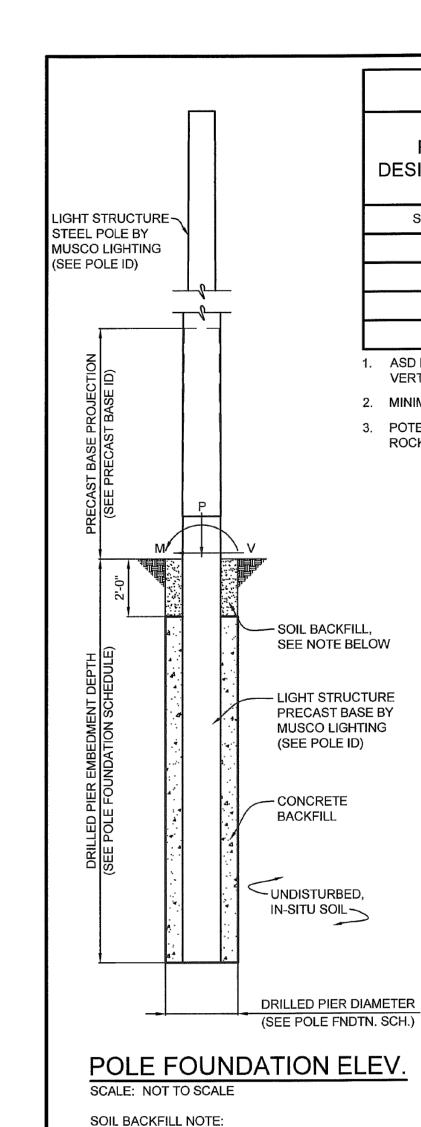
E-604

J.U.L.I.E.

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DRAWING NUMBER



POLE FOUNDATION SCHEDULE						
DOLE	FORCES (1.)			DRILLED PIER		
POLE DESIGNATION	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCHES	EMBEDMENT DEPTH (3.)	CONCRETE BACKFILL YD ³ (2.)
S1, S7, S8	120,876	2,078	3,352	30	16'-0"	1.7
S2	129,063	2,162	3,461	30	16'-0"	1.7
\$3	226,718	3,427	6,475	36	20'-0"	2.7
S4, S6	214,675	3,311	6,364	36	20'-0"	2.7
S5	218,391	3,347	6,409	36	20'-0"	2.7

VERTICAL FORCE IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT). 2. MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL.

3. POTENTIAL FOR ENCOUNTERING ROCK BEFORE REACHING EMBEDMENT DEPTH.

ROCK AUGERING EQUIPMENT MAY BE REQUIRED.	

PRECAST BASE IDENTIFICATION					
PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT	OUTSIDE DIAMETER
5B	4,580 LBS	23'-11"	7'-11"	16'-0"	18.25"
7B	10,160 LBS	27'-10"	7'-10"	20'-0"	23.75"

POLE IDENTIFICATION					
POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT²)	
S1, S7, S8	LSS90A	5B	6 (6)	19.2	
S2	LSS90A	5B	7 (7)	21.7	
S3	LSS100C	7B	14 (6+6) / (2)	38.7	
S4, S6	LSS100C	7B	12 (6+6)	34.8	
S5	LSS100C	7B	13 (6+6) / (1)	36.0	

DESIGN NOTES

 $\frac{\text{DESIGN PARAMETERS:}}{\text{WIND: } V_{\text{ult}} = 115 \text{ MPH, } V_{\text{asd}} = 89 \text{ MPH (EXPOSURE C, RISK CATEGORY II) PER}$ INTERNATIONAL BUILDING CODE, 2015 EDITION (ASCE 7-10). DESIGN WIND PARAMETERS ARE AS NOTED, ACTUAL EXPOSURE MUST BE VERIFIED FOR THE SITE BY THE PROPER GOVERNING OFFICIAL.

GEOTECHNICAL PARAMETERS: ALLOWABLE END BEARING SOIL PRESSURE: 4 KSF

ALLOWABLE LATERAL SOIL BEARING PRESSURE: 0 PSF/FT (GRADE TO -2'-0"); VARIES, SEE SOIL BORINGS (BELOW -2'-0") IN ACCORDANCE WITH THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE,

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE GEOTECHNICAL INVESTIGATION REPORT, PROJECT NO. 23-2066, PREPARED BY GSG CONSULTANTS, INC.; SCHAUMBURG, IL.

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT. CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION.

CONTRACTOR MUST BE FAMILIAR WITH THE COMPLETE SOIL INVESTIGATION REPORT AND BORINGS, AND CONTACT THE GEOTECHNICAL FIRM (IF NECESSARY) TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION OR BRACING DURING PRECAST BASE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

CONCRETE:
CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN
CONCRETE SPECIFIED FOR EARLY PO STRENGTH AT 28 DAYS OF 3,000 PSI. 3,000 PSI CONCRETE SPECIFIED FOR EARLY POLE ERECTION, ACTUAL REQUIRED MINIMUM ALLOWABLE CONCRETE STRENGTH IS 1,000 PSI. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL.

GENERAL NOTES: FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H: 1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.



LICENSE RENEWAL DATE: NOVEMBER 30, 2024 STRUCTURAL ENGINEERS, P.C. - NO. 184-4275

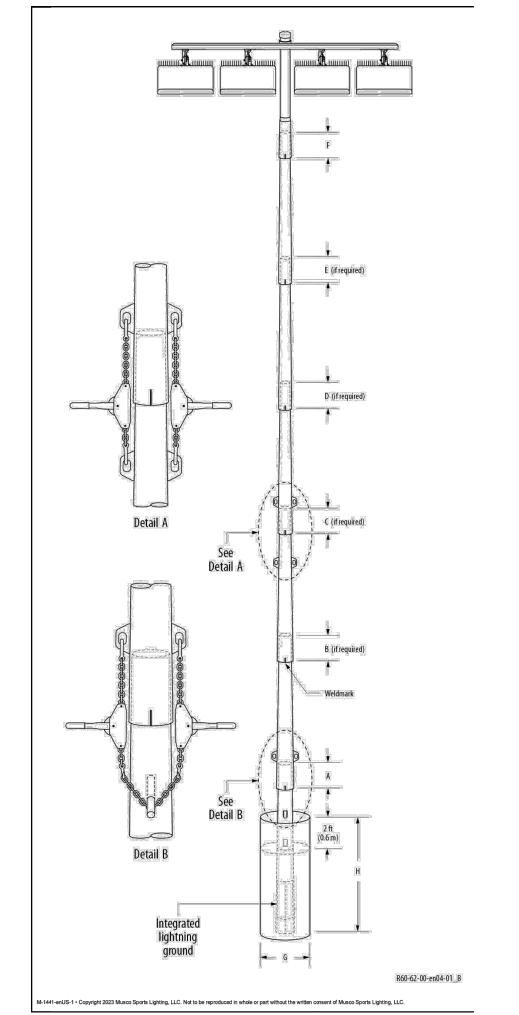
FIELD LIGHTING POLE FOUNDATION DESIGN

THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH

SOIL, WITH A CLASSIFICATION OF CLASS 5 (TABLE 1806.2) OR

BETTER. COMPACTION, 95% FOR COHESIVE SOIL AND 98% FOR A COHESIONLESS SOIL BASED UPON STANDARD

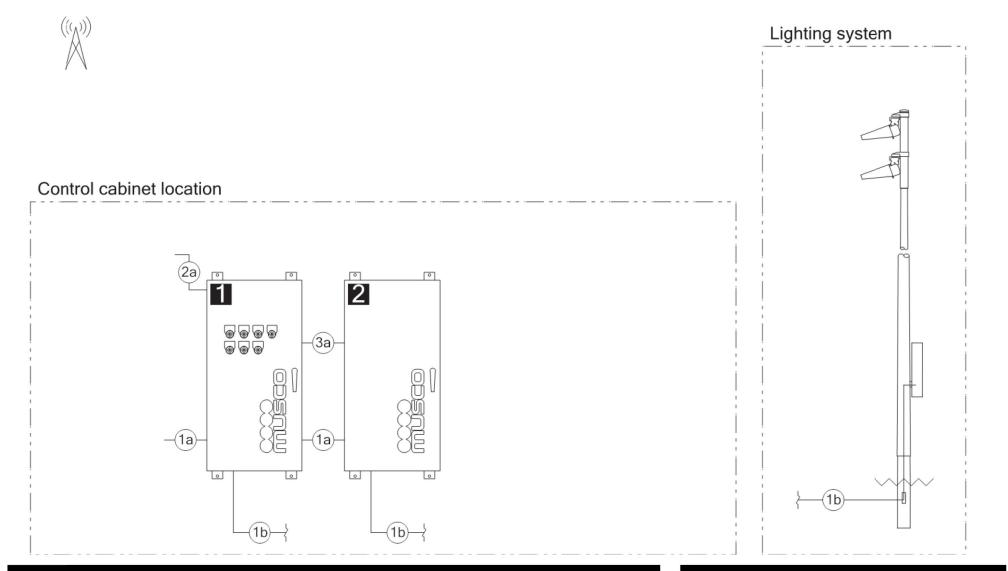
SCALE: NTS



2 FIELD LIGHTING STRUCTURAL POLE DETAIL

FIELD LIGHTING CONTROL DETAIL

Equipment Layout and Connection Details



Connection Details

- 1a Line power to contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
- one circuit per contactor, size wiring per load and voltage drop. 2a Control power with equipment ground to control cabinet. Requires dedicated
- 20 A circuit. Provide transformer if control voltage not present.
- 3a Control harnesses Secondary cabinet to primary cabinet. Harness is provided by Musco in 8-foot length. Use minimum 2 inch diameter conduit for harness connector.

Equipment

Control and monitoring cabinet -

1b Load power from contactors, and equipment grounding conductor. Requires 2 Control and monitoring cabinet secondary

SPORTS LIGHTING DETAILS

PROJECT NUMBER

J.U.L.I.E. DRAWING NUMBER

SCALE: NTS

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THE CITY IN THE SUBURBS"

SMITHGROUP

ELGIN SPORTS

COMPLEX

475 Sports Way,

Owner:

Elgin, Illinois 60123

VOLUME 1 OF 2

EXPANSION

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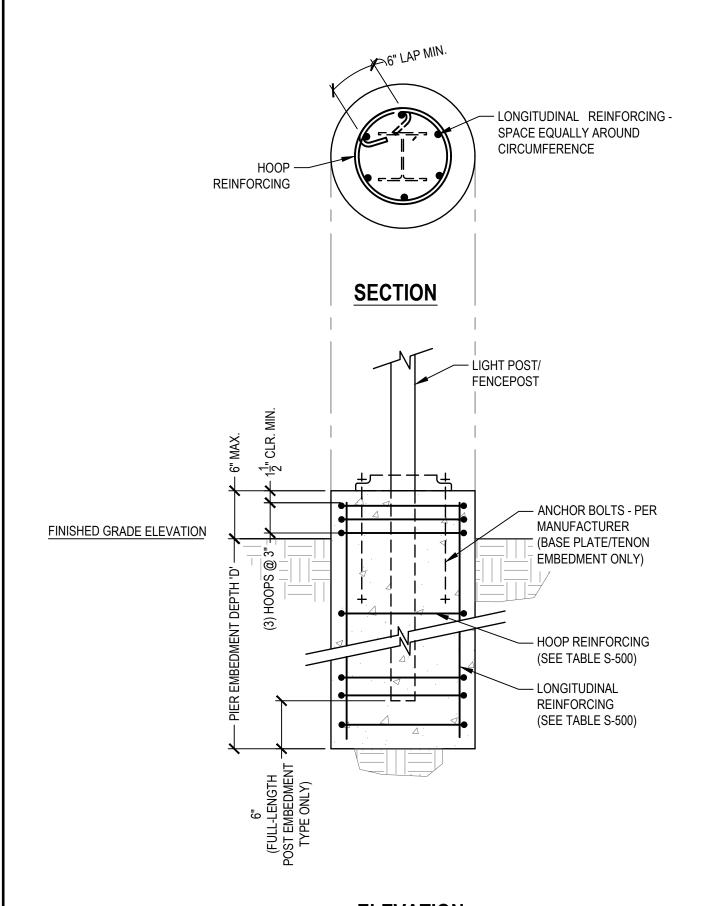
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REV DATE 1 04/11/2024 ISSUE FOR BID

SEALS AND SIGNATURES

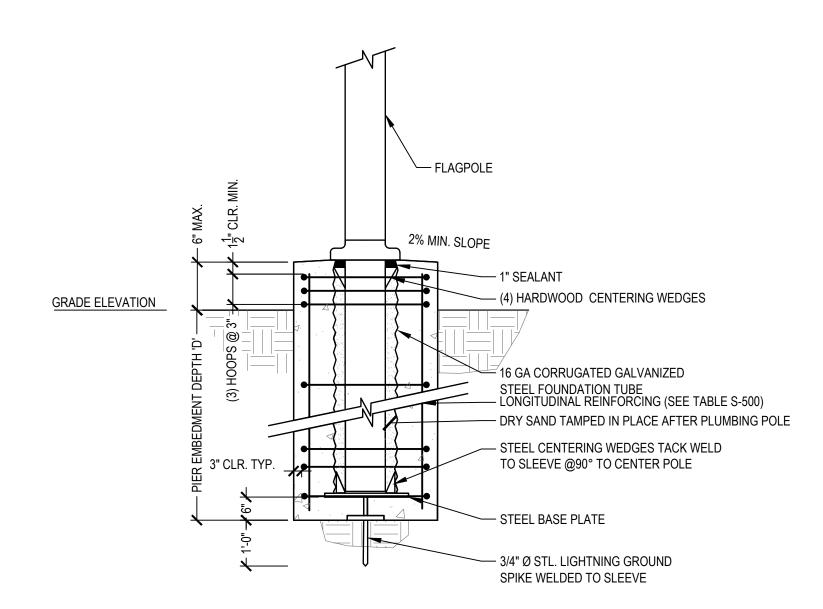
E-605

SCALE: N.T.S.



TYPICAL POLE BASE CONCRETE PIERS

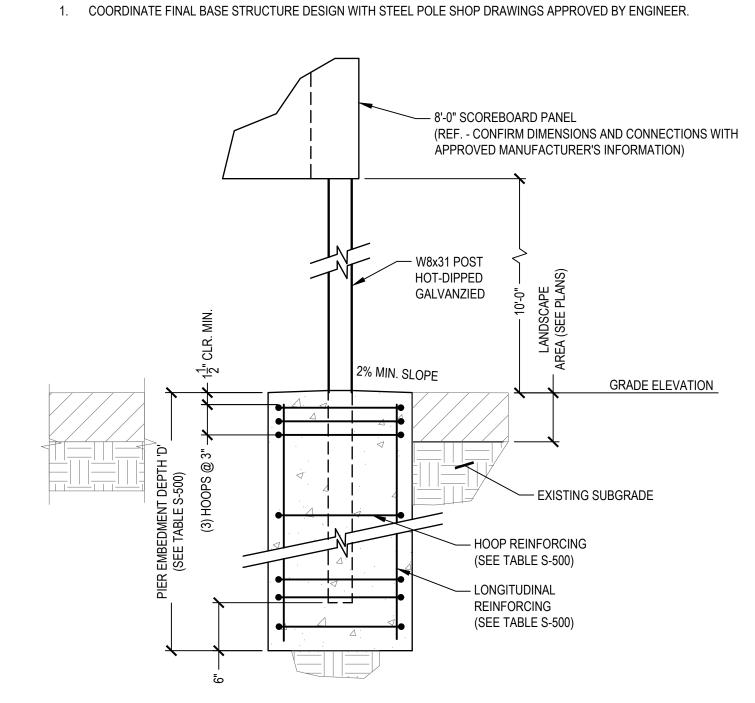
SCALE: 1" = 2



FLAGPOLE BASE PIER

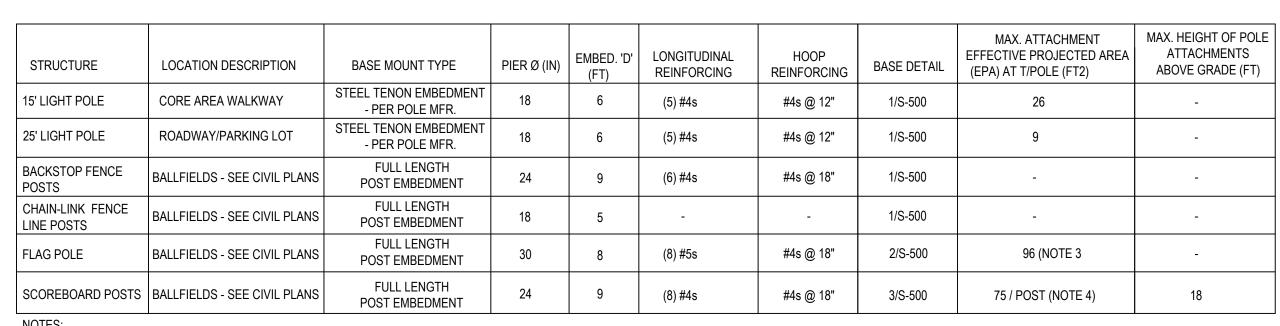
SCALE: 1" = 1"

3 LOCATIONS REQUIRED
NOTES:



3 SCOREBOARD PIER SECTION SCALE: 1"

2 LOCATIONS REQUIRED
NOTES:
1. COORDINATE FINAL BASE STRUCTURE DESIGN WITH SCOREBOARD SHOP DRAWINGS APPROVED BY ENGINEER.



1. DESIGN EMBEDMENT VALUES SHOWN ON THIS TABLE WERE DERIVED USING RECOMMENDED GEOTECHNICAL DESIGN PARAMETERS PROVIDED IN DECEMBER 2023 REPORT BY GSG CONSULTANTS

- ASSUMING AN UNCASED EXCAVATION OF THE PIER HOLE. IF CASINGS ARE DEEMED NECESSARY BY CONTRACTOR, CONTACT ENGINEER FOR ALTERNATE PIER DIMENSIONS.

 2. MAXIMUM HEIGHTS AND PROJECTED AREAS OF POLE ATTACHMENTS SHOWN ARE THE DESIGN BASIS FOR STRUCTURAL DESIGN OF POLE FOUNDATIONS SHOWN THIS PAGE. THESE ARE PRESENTED FOR CONTRACTOR'S EVALUATION OF ALTERNATIVE ATTACHMENT PRODUCTS. CONTRACTOR IS RESPONSIBLE FOR REDESIGN OF FOUNDATIONS SUPPORTING ATTACHMENTS EXCEEDING THESE VALUES.
- 3. ALLOWABLE AREA INDICATED ASSUMES WIND PRESSURE AGAINST A POLYESTER FLAG PER VALUES DEFINED IN ANSI/NAAMM FP 1001 " GUIDE SPECIFICATIONS FOR METAL FLAGPOLES". CONTRACTOR SHALL CONSIDER FLAG MATERIAL EFFECTS ON WIND PRESSURE FOR SELECTING ALTERNATIVES.

- BASE PL. 1 1/4 x 20 x 1'-10"

— HSS10x6 CANOPY COLUMN -

— 1 1/4" GR. 36 BASE PL.

— (12) #5 DOWELS

- 1 1/2" NONSHRINK GROUT - 1/2" EXP. JT. ALL AROUND PIER

BY CANOPY MANUFACTURER

W/ LEVELING NUTS & HEAD NUTS

— 7/8" Ø F1554 GR. 55-S1 WELDABLE ANCHORS

MAX - T&B

SCALE: 3/4" = 1'-0"

4. SCOREBOARD ASSUMED TO BE SUPPORTED BY TWO POST FOUNDATION.

3" HOLE THRU PLATE CENTER -

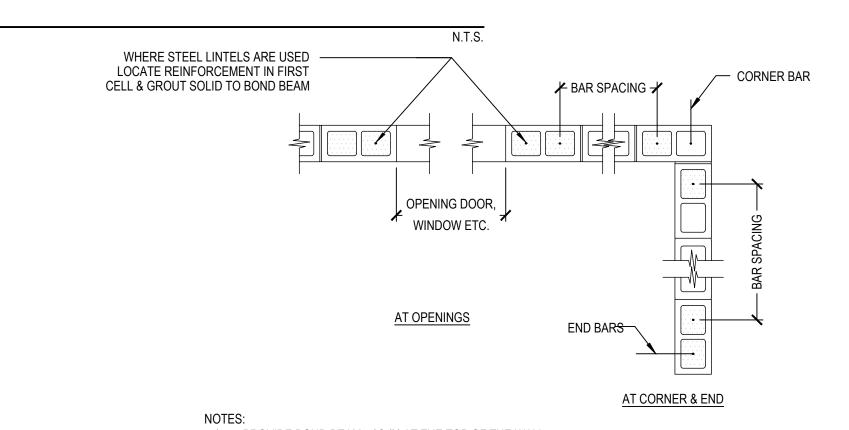
2" CLR.

PAVILION FOOTING

8 LOCATIONS REQUIRED

HSS10x6 COL. -- BY CANOPY MFR.

PIER FOUNDATION TABLE



PROVIDE BOND BEAM w/ 2-#4 AT THE TOP OF THE WALL.
 HORIZONTAL REINFORCING SHALL BE W1.7 LADDER-TYPE JOINT REINFORCING @ 16" o.c.
 PROVIDE JOINT REINFORCING AT TOP AND BOTTOM OF OPENINGS LARGER THAN 16". EXTEND REINFORCING PAST OPENING TO

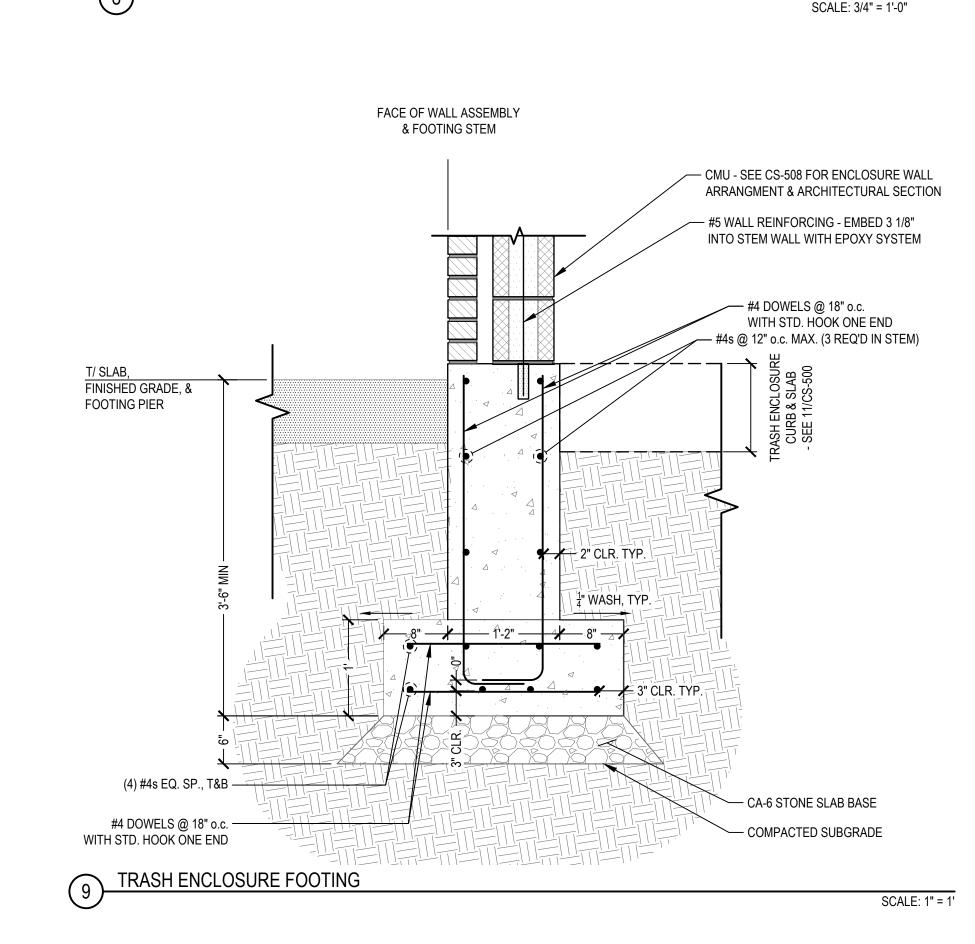
THE GREATER OF 24" OR 40d_b.

4. REINFORCE ALL MASONRY WALLS AS FOLLOWS:

4.1. 8" C.M.U. EXTERIOR - #5 @ 64" IN GROUTED CELLS VERTICAL.

5. PROVIDE 1 - #5 AT JAMBS.

TRASH ENCLOSURE MASONRY DETAILS



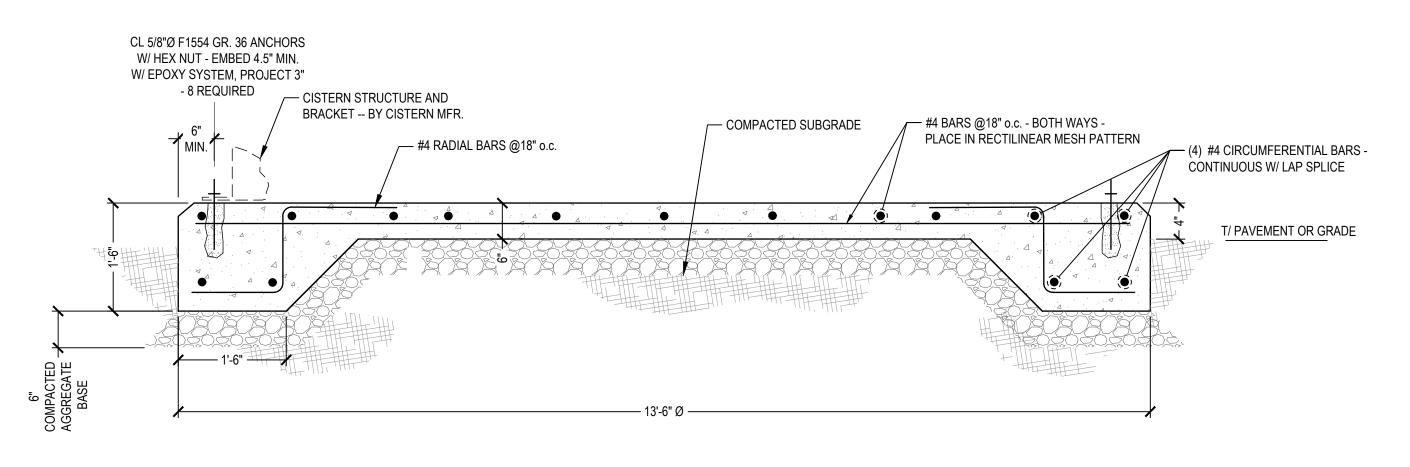
NOTES:

1. DESIGN BASED OFF OF PRELIMINARY DRAWINGS FROM PAVILION STRUCTURE PROVIDER. FINAL DESIGN SHALL BE VERIFIED WITH ENGINEER ONCE SIGNED AND SEALED PAVILION STRUCTURE SHOP DRAWINGS ARE RECEIVED FROM MANUFACTURER.

7'-0" SQ. FOOTING -

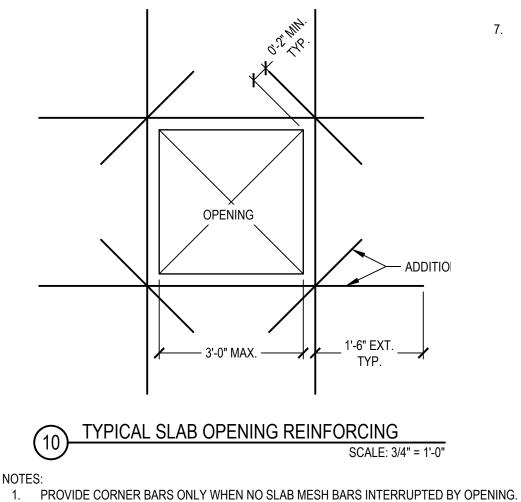
PIER REINFORCEMENT CAGE DETAIL

CL BASE PL. & FOOTING PIER



7 CISTERN FOUNDATION DETAIL

SCALE: 3/4" = 1'-0"



DESIGN CRITERIA:

THE INTERNATIONAL BUILDING CODE/2015.
 DESIGN LOADS:
 DEAD LOADS: MATERIAL SELF WEIGHT
 LIVE LOADS: 250 PSF (SLABS SUBJECT TO VEHICULAR LOADING)
 SURCHARGE LOADS: 250 P.S.F. AT ACCESSIBLE PATHWAYS AT GRADE
 AROUND PARKING AREAS

3. WIND LOAD:
PAVILION & TRASH ENCLOSURE:
BASIC WIND SPEED 115 MPH
RISK CATEGORY II
WIND EXPOSURE C
ALL OTHER STRUCTURES:
BASIC WIND SPEED 105 MPH
RISK CATEGORY I
WIND EXPOSURE C

4. SEISMIC LOAD:
SEISMIC IMPORTANCE FACTOR: le = 1.0
SITE CLASS D
Sds = 0.151g Sd1 = 0.085g

SEISMIC DESIGN CATEGORY B

STRUCTURAL SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS SHALL BE PROVIDED IN COMPLIANCE WITH IBC 2015, CHAPTER 17 AND AS NOTED IN THE SCHEDULE IN DIVISION 01 SPECIFICATIONS.
 THE CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND BUILDING CODE OFFICIAL PRIOR TO BEGINNING OF CONSTRUCTION WORK WHICH SHALL INCLUDE THE FOLLOWING AS A MINIMUM:

 A. ACKNOWLEDGEMENT OF RECEIPT OF STATEMENT OF SPECIAL INSPECTIONS AND AWARENESS OF THE REQUIREMENTS CONTAINED WITHIN.

B. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING CODE OFFICIAL C. QUALITY CONTROL PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF REPORTS.

D. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND

THEIR POSITION IN THE ORGANIZATION.

SEE SPECIFICATIONS FOR ADDITIONAL INSPECTION REQUIREMENTS.

CONCRETE

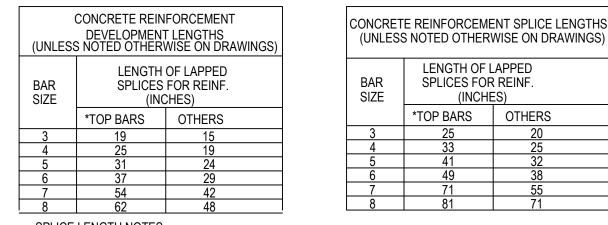
A. ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (2014 EDITION).

ALL DETAILING, FABRICATION AND ERECTION FOR REINFORCING BARS AND THEIR SUPPORT IN THE FORMS WITH ACCESSORIES MUST FOLLOW THE ACI "MANUAL OF

STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", (ACI 315-LATEST) AND CRSI "MANUAL OF STANDARD PRACTICE" (LATEST EDITION). MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE: A. UNFORMED SURFACE IN CONTACT WITH THE GROUND. 3 IN. B. FORMED SURFACES EXPOSED TO EARTH OR WEATHER #6 BAR AND LARGER. 2 IN. FORMED SURFACES EXPOSED TO EARTH OR WEATHER 1 1/2 IN. #5 BAR AND SMALLER. C. FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER: 1. WALLS, SLABS 3/4 IN. 2. BEAMS, GIRDERS AND COLUMNS 1 1/2 IN.

ALL CONCRETE - AIR ENTRAINED 4500 145

5. DEVELOPMENT LENGTHS AND LAP SPLICES SHALL BE IN ACCORDANCE WITH TABLE BELOW AND ACI 318 BUILDING ACI 318 BUILDING CODE. REQUIREMENTS FOR REINFORCED CONCRETE (LATEST EDITION) WHERE CLASSES ARE NOT CALLED ON DRAWINGS, USE CLASS "B" SPLICES.



SPLICE LENGTH NOTES:

* TOP BARS ARE HORIZONTAL BARS SO PLACED THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR. HORIZONTAL BARS IN WALLS ARE TO BE PROVIDED WITH LAP LENGTHS AS REQUIRED FOR TOP BARS. VERTICAL BARS MAY BE CONSIDERED AS OTHER BARS.

6. REINFORCING BARS SHALL BE ASTM A615-GRADE 60 STEEL, U.N.O. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. WELDED WIRE FABRIC MUST LAP AT LEAST 2" SIDE AND 6" AT ENDS AND BE WIRED TOGETHER. ASTM A-706 REINFORCING BARS SHALL BE UTILIZED WHERE NOTED ON PLANS

FOUNDATION NOTES:

1. FOUNDATIONS HAVE BEEN DESIGNED BASED ON A SOILS REPORT DATED 12/19/2023 ISSUED BY GSG CONSULTANTS.

SHALLOW AND MAT FOUNDATIONS:

A. SPREAD AND STRIP FOOTINGS DESIGNED FOR A NET ALLOWABLE BEARING PRESSURE OF 3000
PSF FOR DEAD LOAD PLUS MAXIMUM LIVE LOAD.

B. ANY DISTURBED, LOOSE, OR SOFT MATERIAL THAT IS ENCOUNTERED IN FOUNDATION
EXCAVATIONS SHOULD BE REMOVED PRIOR TO THE PLACEMENT OF CONCRETE.
C. MAT FOUNDATION SHALL BEAR ON CONTROLLED/ENGINEERED FILL WITH NEW ALLOWABLE
PRESSURE OF 2000 PSF. SEE GEOTECHNICAL REPORT FOR OEVEREXCAVATIONS/PROOFROLLING,
AND ENGINEERED FILL REQUIRED.

ALL FILL SHALL BE PLACED IN EIGHT INCH LOOSE LIFTS (MAXIMUM) COMPACTED WITH VIBRATORY ROLLERS. FILL MATERIAL SHALL BE TESTED BY STANDARD PROCTOR DENSITY METHOD (ASTM D698) AND MUST QUALIFY AS SELECT, WITH LESS THAN 10% PASSING THROUGH THE NO. 200 SIEVE. SOIL SHALL BE PLACED WITH MOISTURE CONTENT AND ENERGY TO PROVIDE 92% OF MAXIMUM DRY DENSITY BELOW SLABS ON GRADE AND 95% BELOW FOOTINGS. IN PLACE DENSITY TESTS SHALL BE TAKEN FOR EACH 10,000 SF IN EACH LIFT. FOR ACCEPTABLE OF SOIL, AVERAGE DENSITY TEST MUST EXCEED THE SPECIFIED COMPACTION. NO TESTS SHALL BE PERMITTED TO FALL BELOW 88% COMPACTION BELOW SLABS ON GRADE OR 90% COMPACTION BELOW FOOTINGS.

WHERE GRANULAR SOILS ARE ENCOUNTERED, EXCAVATIONS FOR FOUNDATIONS SHALL BE NO STEEPER

MISCELLANEOUS:

STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH LANDSCAPE AND CIVIL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
 THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD

THAN 1.5H:1.OV. OTHERWISE, EXCAVATIONS SHALL BE NO STEEPER THAN 1.0H:1.0V.

IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
 THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

DO NOT SCALE THESE DRAWINGS, USE DIMENSIONS.
 CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. EXPANSION JOINTS SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED TO ACCOMMODATE ANTICIPATED THERMAL MOVEMENT AFTER THE BUILDING IS COMPLETE.
 THE DESIGN AND ENGINEERING OF SHORING NOTED ON THE DRAWINGS AND IN THE SPECIFICATIONS OR REQUIRED BY THE CONTRACTOR'S CONSTRUCTION METHODS, AS WELL AS

ITS CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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EXPANSION
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Elgin, Illinois 60123

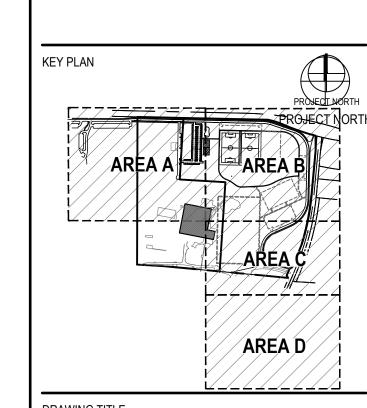
VOLUME 1 OF 2



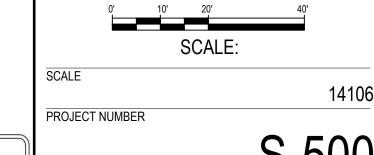
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STRUCTURAL DETAILS

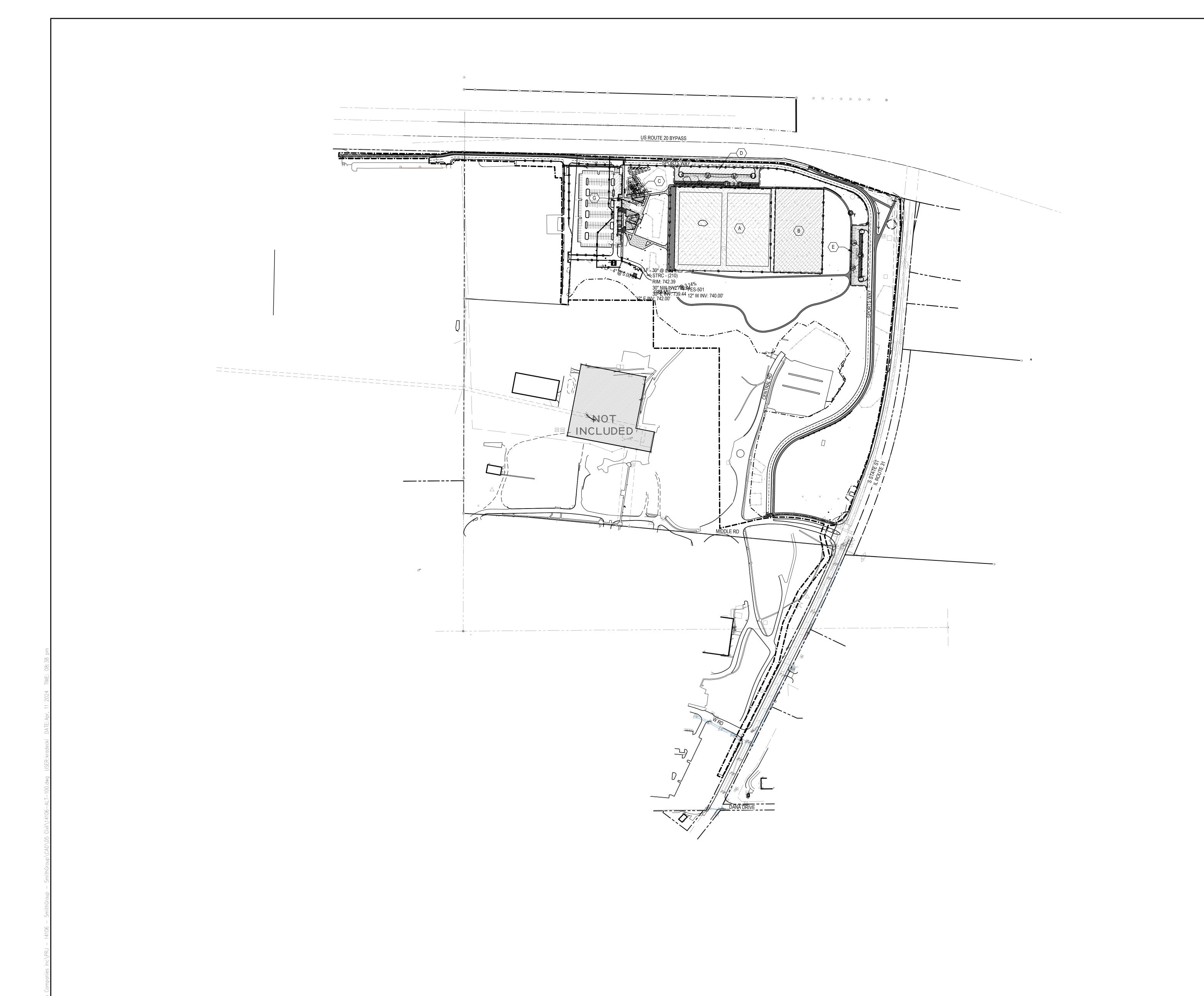


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SEE SHEET CS-100 FOR LAYOUT AND MATERIALS NOTES.

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VOLUME 1 OF 2

KEYED NOTES

A ALTERNATE 1 - RESILIENT INFILL AND SHOCK PAD (1) B ALTERNATE 2 - ATHLETIC FIELD 3 (1)

C ALTERNATE 3 - PLAYGROUND (1) $\langle D \rangle$ ALTERNATE 4 - NORTH PARKING $\begin{pmatrix} 1 \\ Al T-10d \end{pmatrix}$

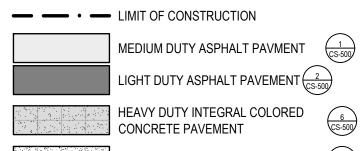
 $\langle E \rangle$ ALTERNATE 5 - EAST PARKING $\frac{1}{ALT-105}$ F ALTERNATE 6 - PLAZA PAVING (1)

G ALTERNATE 7 - PERMEABLE PAVERS IN PARKING LOT 1

THE CITY IN THE SUBURBS"

LEGEND

----- PROPERTY LINE ____ EASEMENT



HEAVY DUTY CONCRETE PAVEMENT (6)(S-509) CONCRETE PAVEMENT (5) CS-500 GRAVEL SHOULDER (CS-500)

ADA TACTILE WARNING

ALTERNATES

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ALS AND SIGNATURES		

DRAWING TITLE

OVERALL ALTERNATE PLAN

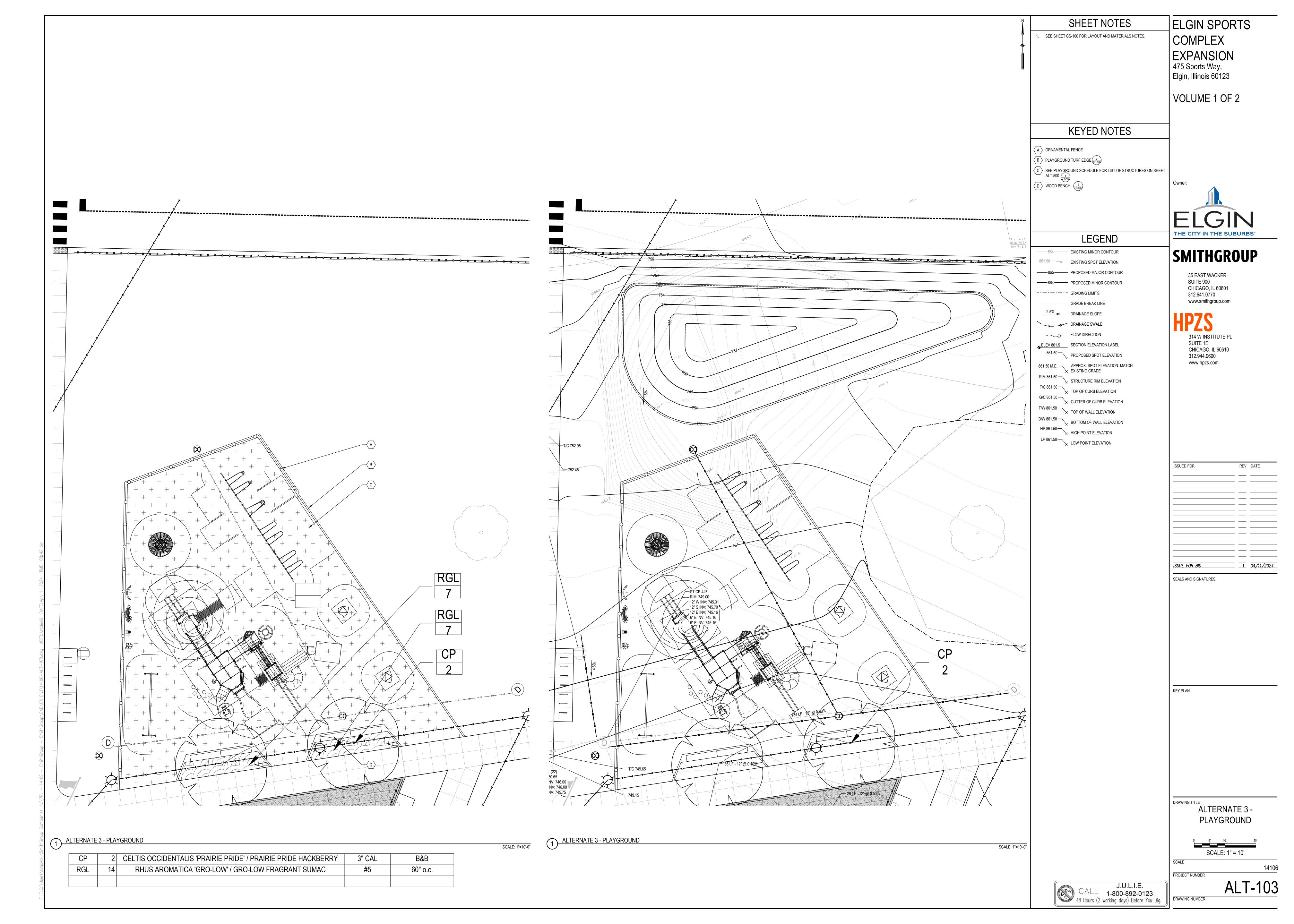
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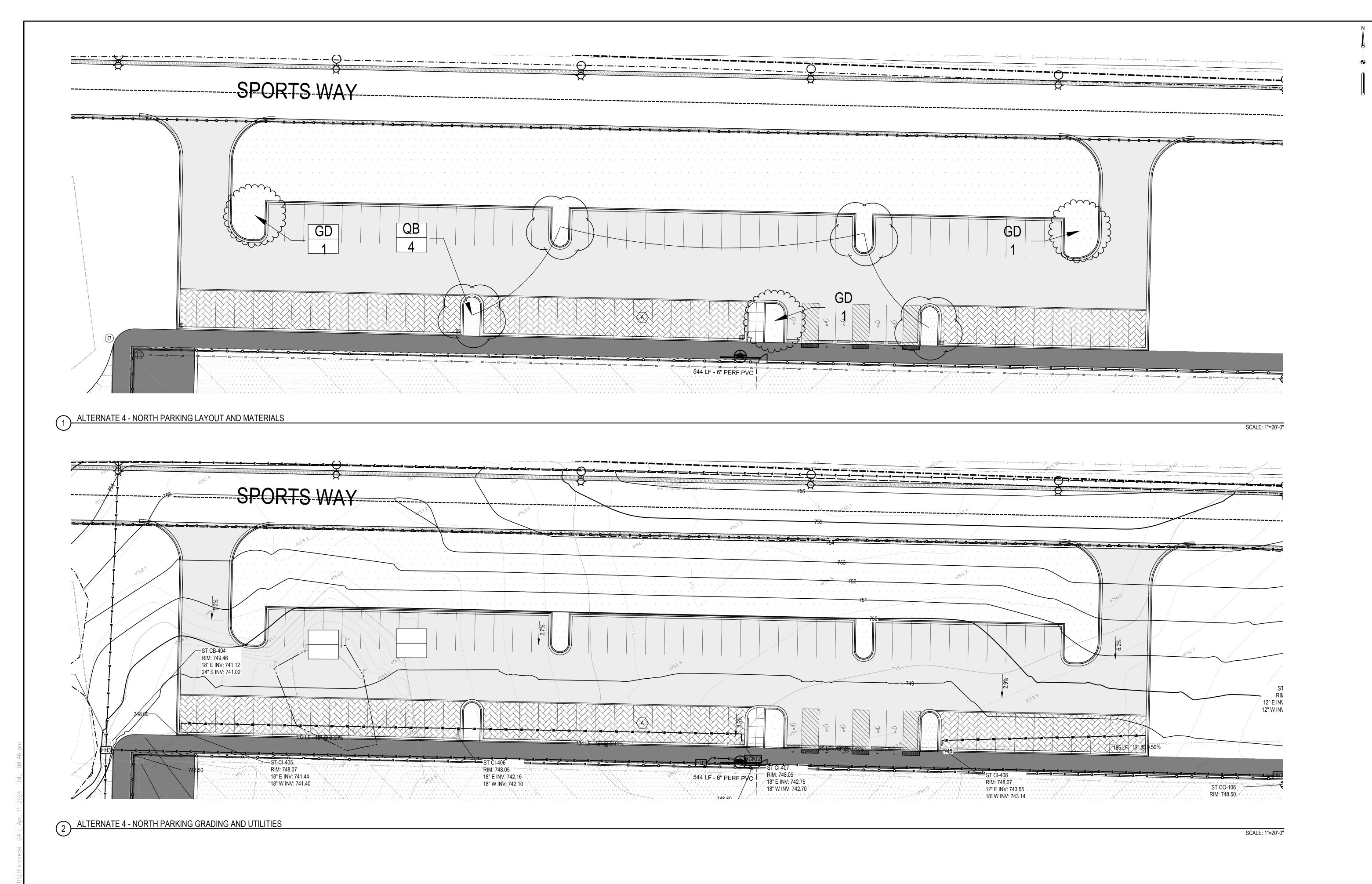


DRAWING NUMBER



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ELGIN SPORTS COMPLEX EXPANSION 475 Sports Way, Elgin, Illinois 60123

VOLUME 1 OF 2

KEYED NOTES



LEGEND

MEDIUM DUTY ASPHALT PAVMENT GRAVEL SHOULDER (CS-500) STANDARD CURB AND GUTTER (CS-500)

—■——■ UNDERGROUND ELECTRICAL CONDUIT

ELECTRIC HAND HOLE RECEPTACLE o — UTILITY POLE

ROADWAY/PARKING LIGHT POLE ——w—— UNDERDRAIN

861.50 × EXISTING SPOT ELEVATION ——865——— PROPOSED MAJOR CONTOUR

-----864 ----- PROPOSED MINOR CONTOUR -·-· GRADING LIMITS -- GRADE BREAK LINE

2.5% ► DRAINAGE SLOPE DRAINAGE SWALE FLOW DIRECTION

ELEV 861.5 SECTION ELEVATION LABEL 861.50 PROPOSED SPOT ELEVATION 861.50 M.E. — APPROX. SPOT ELEVATION: MATCH ★ EXISTING GRADE

RIM 861.50 X STRUCTURE RIM ELEVATION T/C 861.50 X TOP OF CURB ELEVATION G/C 861.50 X GUTTER OF CURB ELEVATION

T/W 861.50 × TOP OF WALL ELEVATION B/W 861.50 BOTTOM OF WALL ELEVATION

HP 861.50 HIGH POINT ELEVATION LP 861.50 ____ LOW POINT ELEVATION

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SEALS AND SIGNATURES

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REV DATE

KEY PLAN

ALTERNATE 4 -PARKING LOT 2

SCALE: 1" = 20'

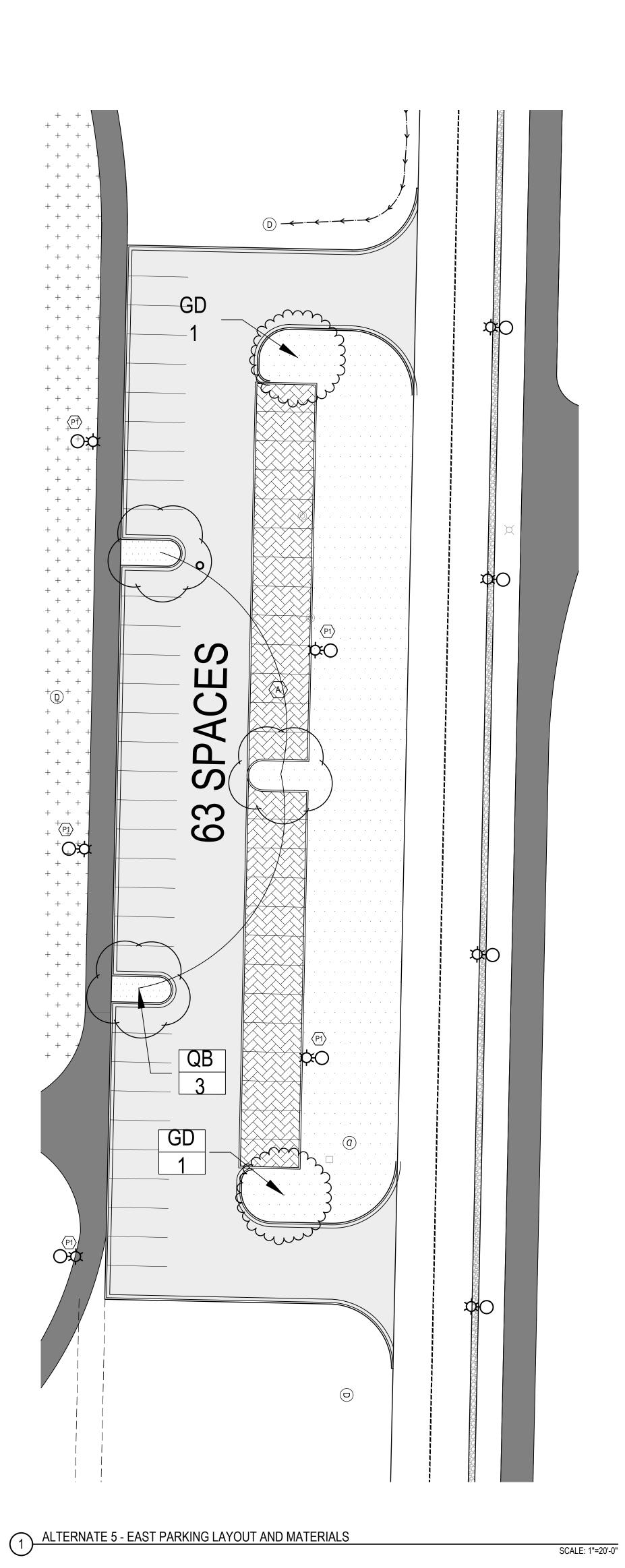
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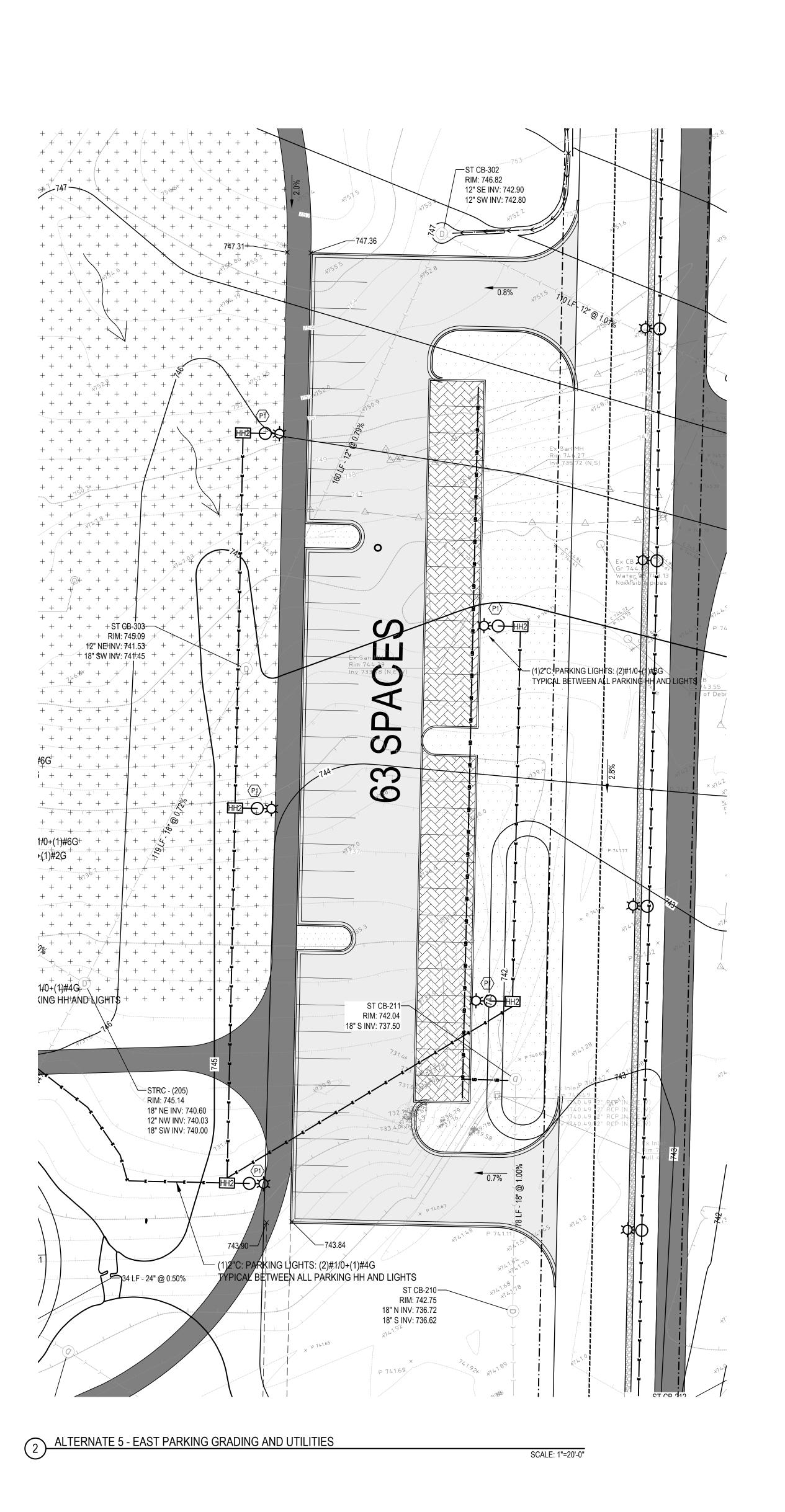


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VOLUME 1 OF 2

KEYED NOTES

A HERRINGBONE PAVING PATTERN FOR ALL VEHICULAR AREAS

ELGIN
THE CITY IN THE SUBURBS

LEGEND

MEDIUM DUTY ASPHALT PAVMENT

GRAVEL SHOULDER

STANDARD CURB AND GUTTER

CS-500

TETEL TO THE TOTAL CONDUIT

—•—• UNDERGROUND TELECOM CONDUIT

HH# ELECTRIC HAND HOLE

RCPT# RECEPTACLE

O — UTILITY POLE

FIELD LIGHT POLE

ROADWAY/PARKING LIGHT POLE

PEDESTRIAN/GATEWAY LIGHT POLE

UNDERDRAIN

-----864----- EXISTING MINOR CONTOUR

GRADING LIMITS

GRADE BREAK LINE

DRAINAGE SLOPE

DRAINAGE SWALE

FLOW DIRECTION

SECTION ELEVATION LABEL

861.50

PROPOSED SPOT ELEVATION

861.50 M.E. APPROX. SPOT ELEVATION: MATCH EXISTING GRADE
RIM 861.50 STRUCTURE RIM ELEVATION

T/C 861.50 X TOP OF CURB ELEVATION

G/C 861.50

X GUTTER OF CURB ELEVATION

T/W 861.50

X TOP OF WALL ELEVATION

B/W 861.50 BOTTOM OF WALL ELEVATION
HP 861.50 HIGH POINT ELEVATION
LP 861.50 LOW POINT ELEVATION

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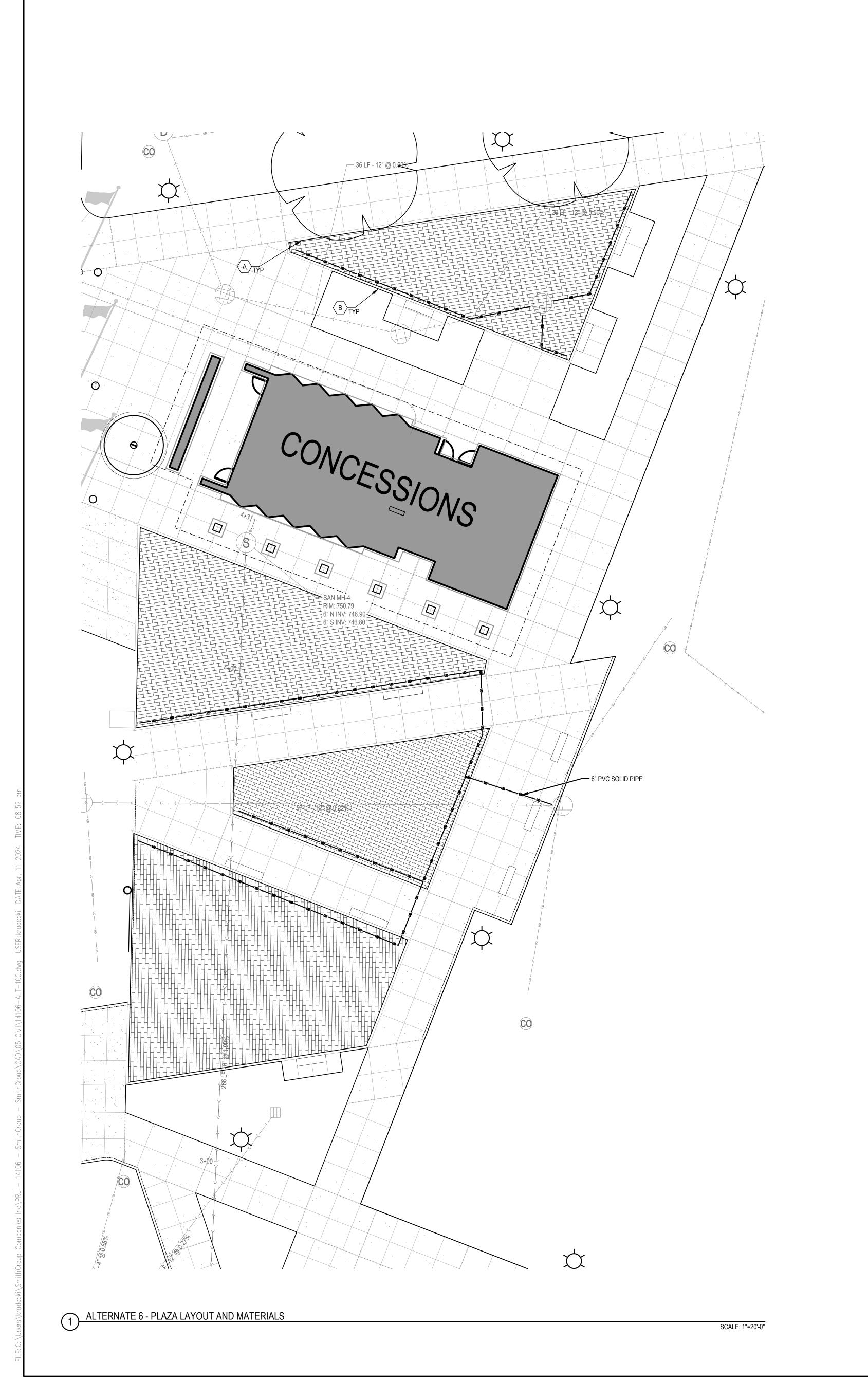
KEY PLAN

ALTERNATE 5 -PARKING LOT 3

ALT-105

SCALE: 1" = 20





1. SEE SHEET CS-100 FOR LAYOUT AND MATERIALS NOTES.

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VOLUME 1 OF 2

KEYED NOTES

A PERMEABLE PAVERS AT CONCRETE PAVEMENT, TYP

4
ALT-500 B PERMEABLE PAVERS AT PLANT BED, TYP 6
ALT-500



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LEGEND

——w—— UNDERDRAIN

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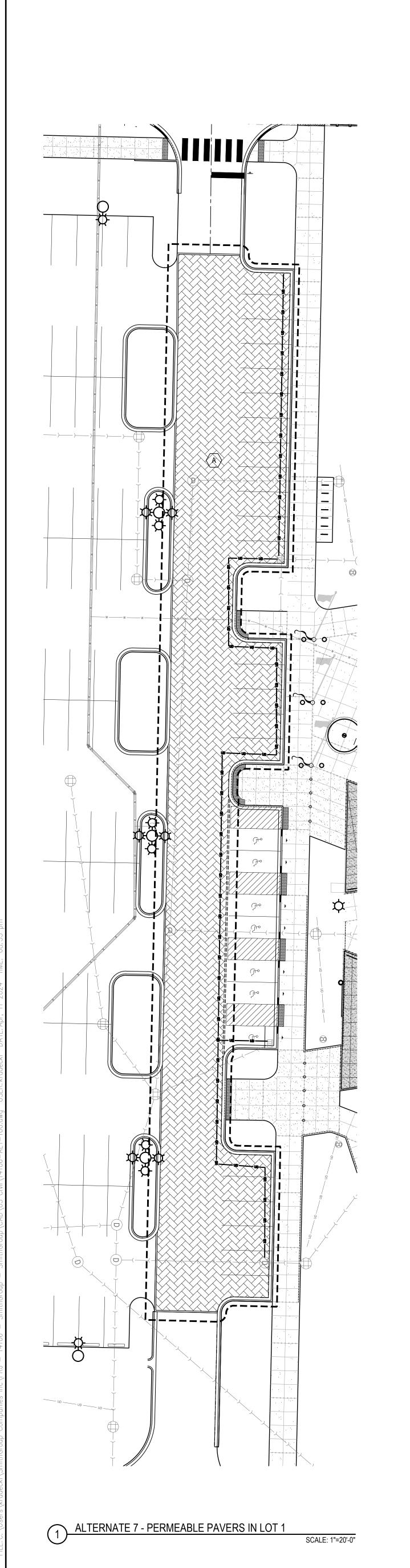
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ALTERNATE 6 -PLAZA PAVING

ALT-106





 $\langle A \rangle$

SHEET NOTES

1. SEE SHEET CS-100 FOR LAYOUT AND MATERIALS NOTES.

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VOLUME 1 OF 2

KEYED NOTES

A HERRINGBONE PAVING PATTERN FOR ALL VEHICULAR AREAS (4) (4) (1-50)

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LEGEND

STANDARD CURB AND GUTTER (CS-500)

————— UNDERDRAIN

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ALTERNATE 7 -PERMEABLE PAVERS IN PARKING LOT 1 o' 10' 20' SCALE: 1" = 20'

ALT-107

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