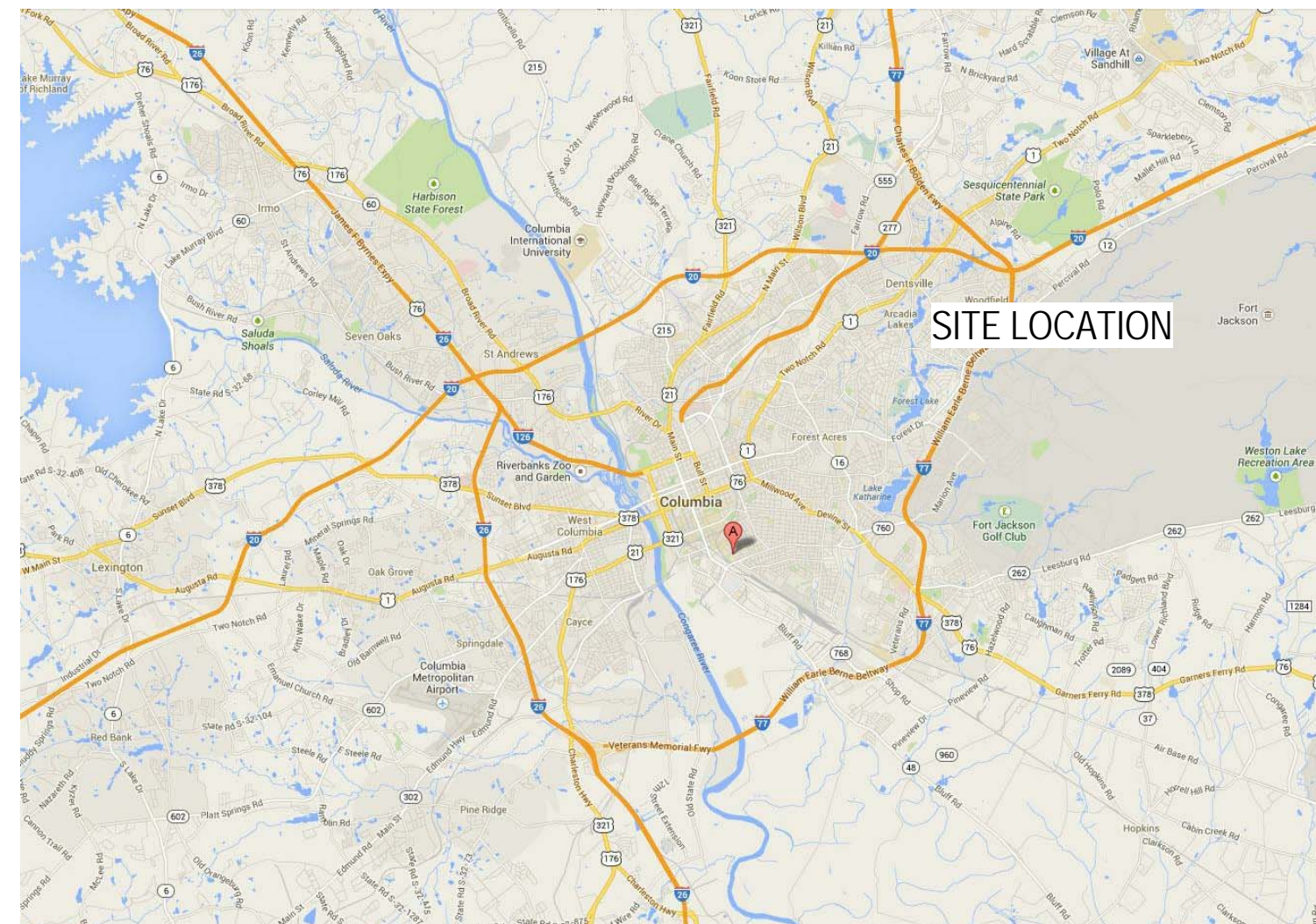


ATHLETIC VILLAGE IMPROVEMENTS FIELD HOUSE CONVERSION



UNIVERSITY OF SOUTH CAROLINA
116 MARION STREET
COLUMBIA, SC 29205
STATE PROJECT NO: #H27-6105-MJ-C



LOCATION MAP
NOT TO SCALE

DRAWING LIST	
DRAWING NUMBER	DRAWING NAME
GENERAL	
G-001	COVER SHEET
ARCHITECTURAL	
A-001	PROJECT DATA, CODE & SYMBOLS
AD-101	DEMOLITION PLAN
A-101	TRACK LEVEL FLOOR PLAN
A-601	DOOR SCHEDULE & DETAILS
TRACK & FIELD	
TF-1	TRACK LAYOUT PLAN
TF-2	TRACK SURFACE
TF-3	TRACK DETAILS
TF-4	TRACK DETAILS

DRAWING LIST	
DRAWING NUMBER	DRAWING NAME
STRUCTURAL	
S-001	GENERAL NOTES, DESIGN DATA & DETAILS
S-101	FLOOR PLAN
ELECTRICAL	
E-001	ELECTRICAL LEGEND & ABBREVIATIONS
ED-101	EXISTING CONDITION-REMOVAL ELECTRICAL PLAN
E-101	ELECTRICAL POWER PLAN
E-201	ELECTRICAL ONE LINE DIAGRAM



VICINITY MAP
NOT TO SCALE



UNIVERSITY OF SOUTH CAROLINA
ATHLETIC VILLAGE IMPROVEMENTS - FIELD HOUSE CONVERSION
116 MARION STREET
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STATE PROJECT NO: #H27-6105-MJ-C

No. | Submittal | Revision | Appl. | By | Date

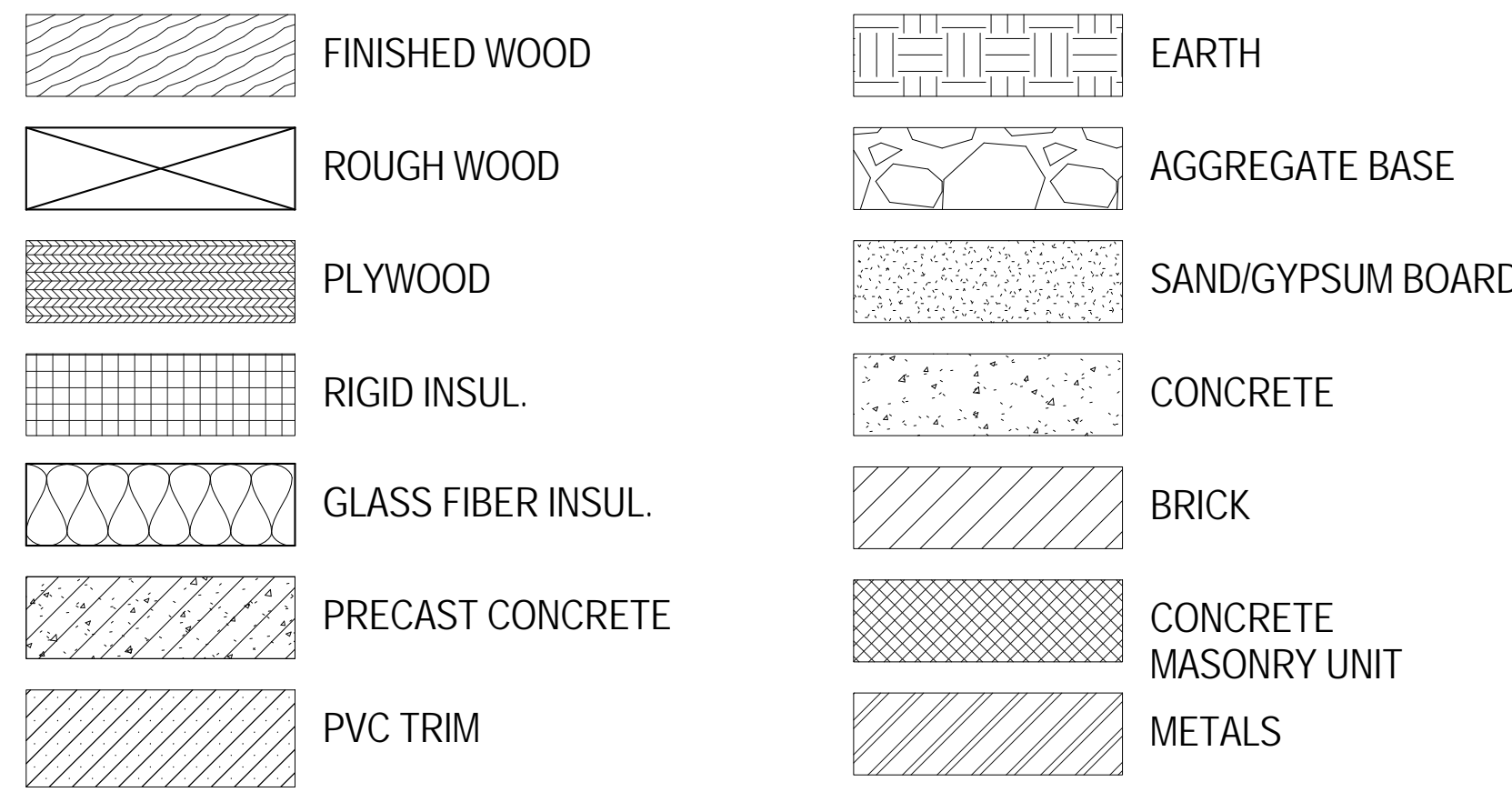
ISSUED FOR BID | DR. | KRA | 08/01/16

COVER SHEET

Designed By: KRA | Drawn By: CC | Checked By: TW
Issue Date: 08/01/16 | Project No: 27482 | Scale: AS SHOWN

Drawing No:
G-001

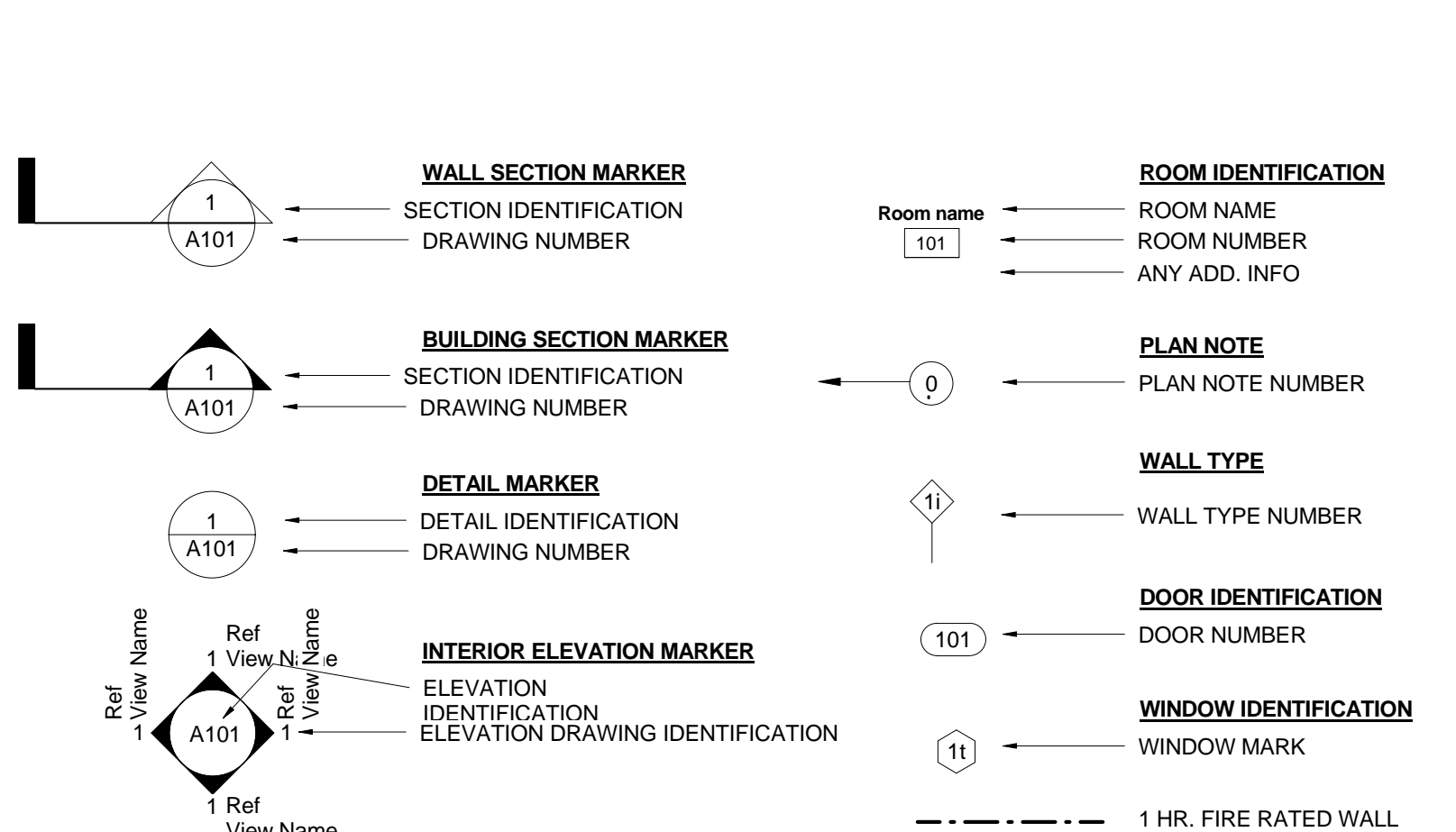
Material Symbols



Abbreviations

Table of abbreviations for building materials and systems, including AC (Air Conditioning), A.C.T. (Acoustical Ceiling Tile), ALUM (Aluminum), APT (Apartment), BAB (Balled and Burlap), BD (Board), BLDG (Building), BKRG (Blocking), CB (Catch Basin), CJ (Control Joint), CL (Centerline), CLR (Clear), CLG (Ceiling), CMT (Ceramic Mosaic Tile), CMU (Concrete Masonry Unit), CONC (Concrete), CPT (Carpet), CT (Ceramic Tile), DN (Down), DS (Down Spout), DWG (Drawing), EXIST (Existing), ELEC (Electric), E.C. (Electrical Contractor), E.I.F.S. (Exterior Insulation Finish System), E.J. (Expansion Joint), ELEV (Elevation), EQ (Equal), EXT (Exterior), FD (Floor Drain), FIN (Finish), FLD (Floor), FLUR (Fluorescent), FE (Fire Extinguisher), FT (Foot/Feet), G (Gallon), GWB (Gypsum Wall Board), H (Head), H.C. (Heating Connector), HT (Height), HORIZ (Horizontal), HWR (Hot Water Return), HWS (Hot Water Supply), INSUL (Insulation), J (Jamb), L.P. (Laminated Plastic), LAM (Laminate), M (Masonry), MECH (Mechanical), MAX (Maximum), MIN (Minimum), MH (Man Hole), MET (Metal), MTL (Metal), MR (Mark), MRGWB (Moisture Resistant Gypsum Wall Board), N (North), NIC (Not in Contract), NTS (Not to Scale), ON (On Center), P.C. (Plumbing Contractor), PLAS (Plastic), PLUM (Plumbing), PLUM LAM (Plastic Laminate), PLUMB (Plumbing), PMUF (Pre Molded Joint Filler), PP (Peat Pot), PT (Paint/Pressure Treated), PVC (Polyvinyl Chloride), QUARRY TILE (Quarry Tile), QTY (Quantity), RC (Recess Cutting), RD (Roof Drain), REDD (Required), SH (Shirals), TB (Towel Bar), TTD (Toilet Tissue Dispenser), TYP (Typical), V (Vinyl), VCT (Vinyl Composition Tile), VERT (Vertical), VWC (Vinyl Wall Covering), W (With), WD (Wood), WWF (Welded Wire Fabric).

Drawing Symbols



Project Data

Project Description

The existing field house is a pre-engineered metal building with 14' high masonry walls at the base and vertical metal panels above. It is an existing non-conforming structure. The project consists of Level 1 and Level 2 alterations. Level 2 alterations account for less than 5% of the floor area. There is no change of occupancy. Project work includes: The removal of an existing full height divider wall separating tennis and turf space and the removal of all existing flooring and sports equipment from the main field house space. The removal of and replacement of existing doors and the installation of a new concrete slab and track surface.

Building Code Data

Occupancy Group: A-3, Assembly, Gymnasium without spectator seating
Occupancy Load: 2,045 persons
Building Height: 2 stories/ 55 ft per IBC Code
Allowable Actual: 1 stories / 68 ft
Building Area: Allowable 16,625 sf, Actual 102,280 sf
Construction Type: Type II B

Code Information

- Building: International Building Code IBC 2012 and International Existing Building Code with amendments
- Accessibility: Accessible and Useable Buildings and Facilities - ANSI A117.1, 2009
ADA Accessibility Guidelines - ADA 2010
- Electrical: National Electric Code - NEC 2011
- Mechanical: International Mechanical Code - IMC 2012
- Plumbing: International Plumbing Code - IPC 2012
- Other: International Fire Code - IFC 2012 with amendments
Fire and Life Safety - F&LS 2009
International Energy Conservation Code - IECC 2009
International Fuel Gas Code - IFGC 2012 with amendments

TABLE 5-1 FLOOD HAZARD INFORMATION & FLOOD LOADS
FLOOD HAZARD AREA: Flood Map Information: Flood Zone: Community Number: N/A
Base Flood Elevation: N/A
Design Flood Elevation: N/A
NON-HIGH VELOCITY WAVE ACTION
HIGH VELOCITY WAVE ACTION

ZONING CERTIFICATION
I hereby certify that to the best of my knowledge, these plans comply with applicable zoning ordinances, and that plans have been submitted to appropriate authority for their review and/or approval.

EROSION AND SEDIMENT REDUCTION/STORMWATER MANAGEMENT
Designer's Certification: I hereby certify that the measures in this plan are designed to control erosion, retain sediment on the site, and manage stormwater in a manner that neither any on-site nor off-site damage or problem is caused or increased, that all structural measures are designed to the minimum standards for health and safety, and that all the provisions of the plan are in compliance with the Regulations contained in Chapter 72, Article 2, 85 Code of Regulations (Erosion and Sediment Reduction and Stormwater Management Regulations).

TABLE 5-2 SOILS & SITE
SOILS INVESTIGATION (if required): Yes No per IBC 1803.2
SOIL CLASSIFICATION: N/A per IBC 1613.3.2
MINIMUM DESIGN SOIL BEARING LOAD: 2,500 psf per IBC table 1806.2
MINIMUM DESIGN SOIL LATERAL LOAD: N/A psf per IBC 1610.1

TABLE 5-3 BASIC BUILDING CODE INFORMATION
CONSTRUCTION TYPE: Type II-B (IBC 602)
OCCUPANCY CLASSIFICATION (indicate all): A3 (IBC 302)
OCCUPANCY GROUP (indicate most restrictive): A3 (IBC Table 503)
OTHER FIRE PROTECTION SYSTEMS, DEVICES OR FEATURES

TABLE 5-4 BUILDING AREA
AREA LIMIT BY TABLE 503 OF IBC: 9,500 SF
TOTAL ALLOWED AREA OF BUILDING (sum of all stories): 16,625 SF
TOTAL DESIGNED AREA OF BUILDING: 102,280 SF

TABLE 5-5 BUILDING HEIGHT
Without any Allowable Increase (per IBC Table 503): 68 ft, 1 story, 55 ft, 2 stories
Allowable Height Increase (per IBC 504.2): N/A, N/A, N/A, N/A

TABLE 5-6 BUILDING DESIGN OCCUPANT LOAD
STORY LEVEL: 1
FUNCTION OF SPACE: GYMNASIUM
SUBTOTAL DESIGN OCCUPANT LOAD FOR THIS STORY: 2045

TABLE 5-7 GENERAL FIRE PROTECTION REQUIREMENTS
SEPARATIONS: Fireblocking Required, Draughtstop Required, Smoke Control System Required, Smoke Barriers Required, Smoke Partitions Required, Fire Partitions Required, Fire Barrier Required
ALARM & DETECTION: Fire Alarm System Required, Emergency Alarm System Required
SUPPRESSION: Standpipes Required, Sprinklers Required, Portable extinguishers required, Other suppression systems required, Smoke & heat vents required

TABLE 5-8 FIRE RESISTANCE RATING OF BUILDING ELEMENTS
BUILDING ELEMENT: Structural Frame, Interior, Nonbearing Walls & Partitions, Floor Construction, Roof Construction, Fire Walls, Fire Barriers, Shaft Enclosures, Fire Partitions, Opening & Protective Listing, Others

TABLE 5-9 STRUCTURAL DESIGN INFORMATION
RISK CATEGORY: III
LIVE LOADS: Floor Live Load, Occupancy Use, Roof Live Load
WIND LOADS: Ultimate Design Wind Speed, Exposure Category, Internal Pressure Coefficient, External Pressure Coefficient
SEISMIC LOADS: Seismic Importance Factor, Site Class, Seismic Spectral Response Acceleration, Design Spectral Response Acceleration Parameters, Basic Seismic Force Resisting System, Design Base Shear, Seismic Response Coefficient, Response Modification Factor

TABLE 5-10 PLUMBING INFORMATION
WATER SYSTEM: Service Line Size, Peak Flow, Total Demand
SANITARY SEWER SYSTEM: Loading, Service Line Size, Slope
MINIMUM PLUMBING FIXTURES REQUIRED/PROVIDED: Water Closets, Lavatories, Urinals, Drinking Fountains, Unisex Toilet, Service Sink, Other (list)

TABLE 5-11 MECHANICAL INFORMATION
AIR CONDITIONING SYSTEMS: Overall Thermal Transfer Value (OTTV), Building Cooling Load, Building Heating Load
OTHER LOADING FEATURES: Glass, Insulation Values, Outside Air minimum when occupied
MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT

TABLE 5-12 ELECTRICAL INFORMATION
SERVICE TRANSFORMER: By Utility Company, By Agency
ELECTRICAL SERVICE INFORMATION: Service Voltage Phase, Service Entrance Conductors Size, Total Connected Load, Estimated Maximum Demand, Available Fault Current, Interrupting Capacity
EMERGENCY SERVICE INFORMATION: Emergency Generator, Exit/Emergency Lights Backup Power, Fire Alarm System, LIGHTNING PROTECTION PROVIDED, COMMUNICATIONS COORDINATED

TABLE 5-13 DESIGN-RELATED CONSTRUCTION PERMITS/APPROVALS
TYPE OF DEVELOPMENT: Air pollutant discharge, Ambulatory surgical facilities, Arbestos abatement, Building construction, Community residential care facilities, Dams and reservoirs, Construction in navigable waters, Demolition of Real Property, Design Review Board, Elevators, Fire Department (Local), Fire Protection Sprinkler, Fire suppression system, Floodplain, construction, Food service establishments, Historical building rehabilitation, Hospitals & infirmaries, Road encroachment, local, Road encroachment, state, Sanitary sewer, treatment & disposal, Storm water discharge, erosion and sediment control, Swimming areas, natural public, Swimming pools, public, Underground storage tanks, Waste discharge (sewage, industrial, waste, etc.), Water supply, Wells, Underground injection



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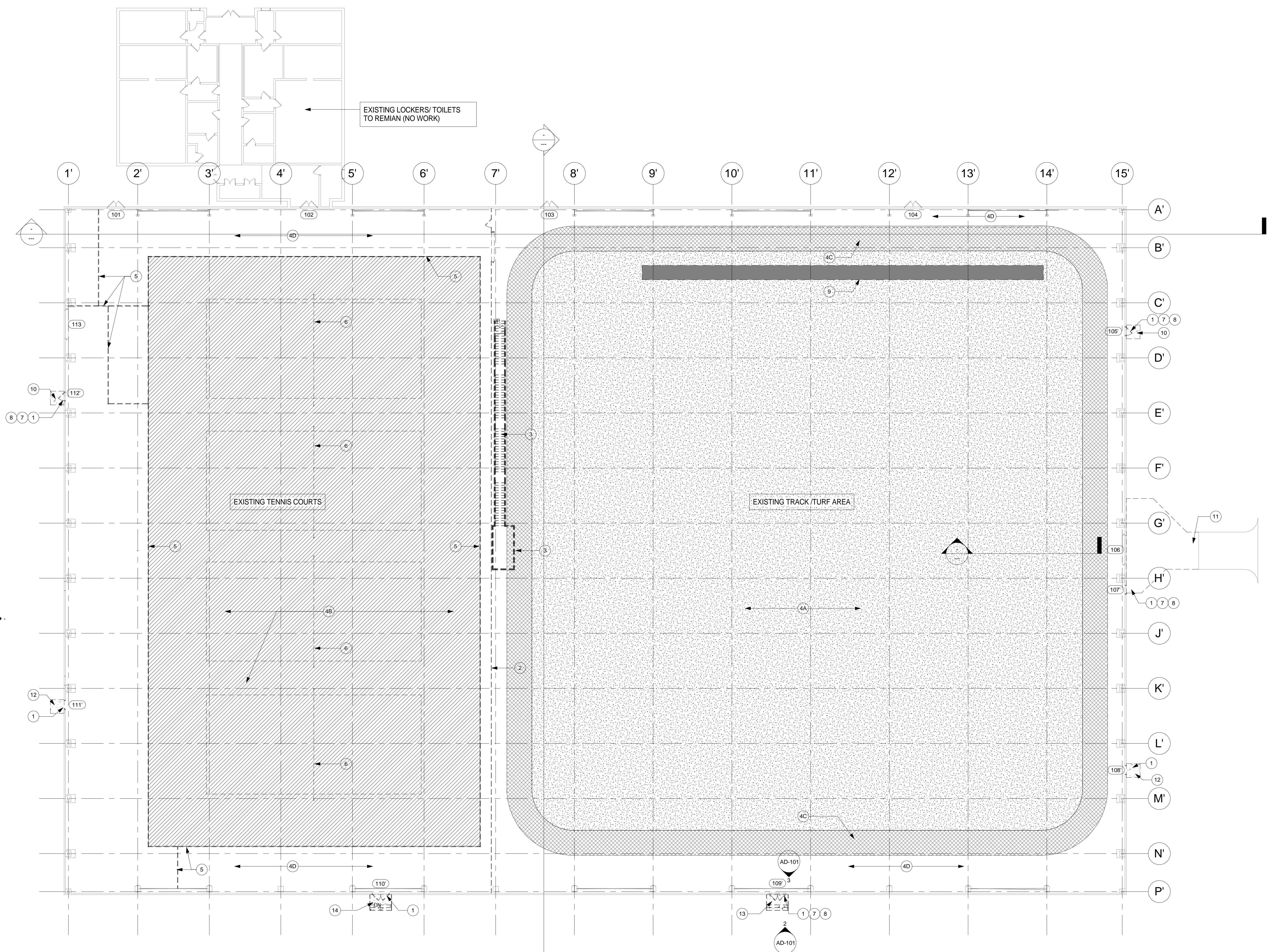
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PROJECT DATA, CODE, SYMBOLS & ABBREVIATIONS

Table with 3 columns: Designed By, Drawn By, Checked By. Row 1: KRA, CC, TW

Table with 3 columns: Issue Date, Project No., Scale. Row 1: 08/01/16, 27482, AS SHOWN

Drawing No: A-001

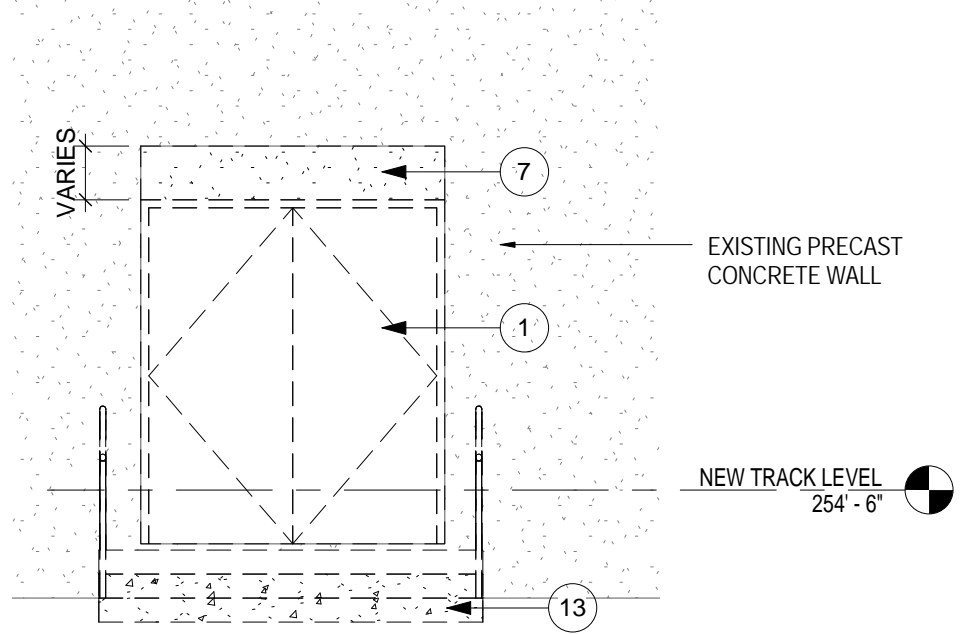
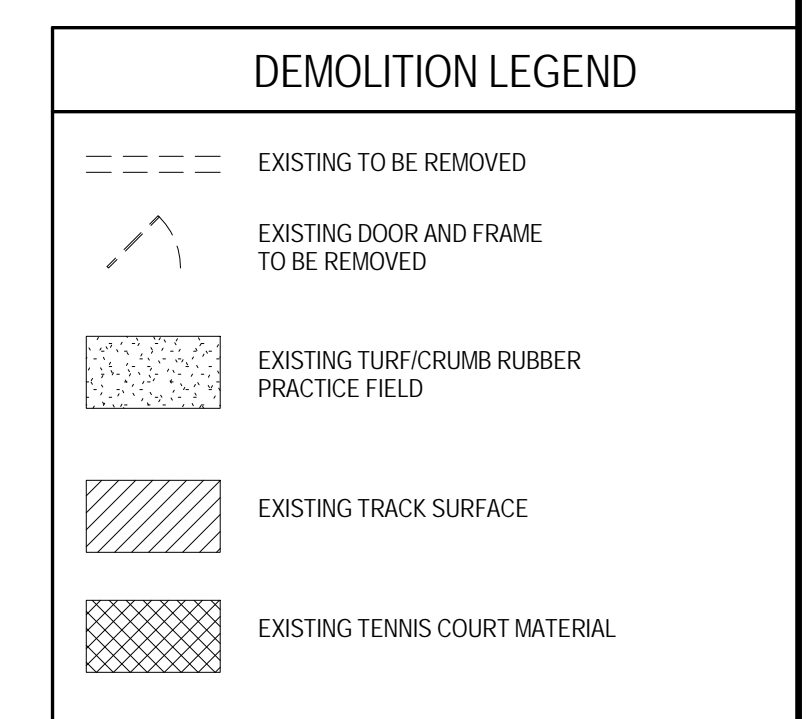


1 TRACK LEVEL DEMOLITION PLAN
1/16" = 1'-0"

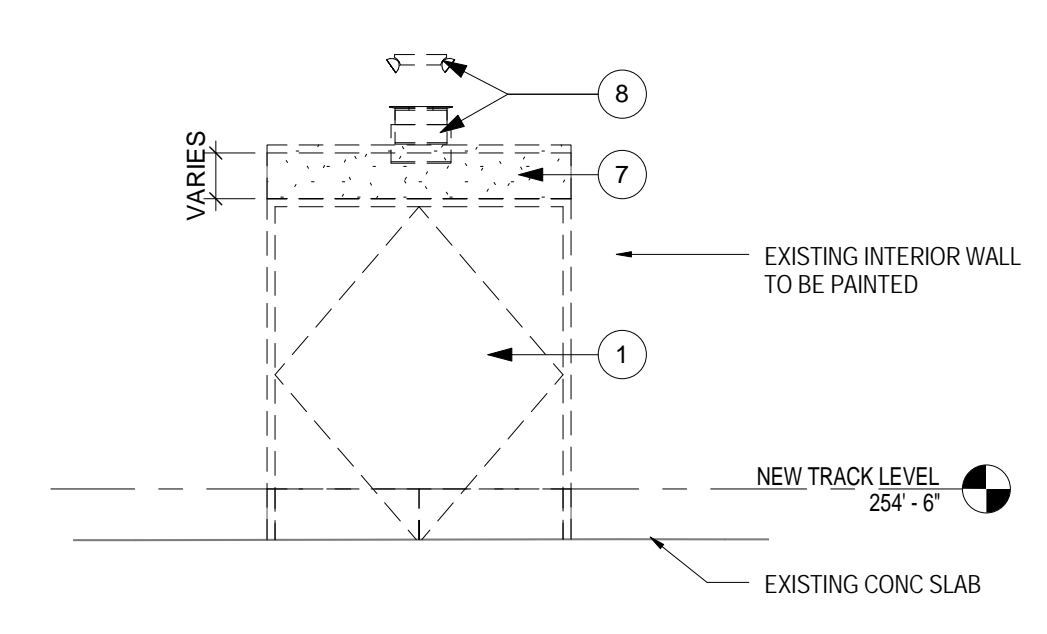
DEMOLITION KEYNOTES

- 1 REMOVE AND DISPOSE OF EXISTING DOOR AND FRAME ASSEMBLY. PREPARE AREA TO RECEIVE NEW WORK.
- 2 REMOVE AND DISPOSE OF EXISTING METAL PANEL PARTITION INCLUDING SUPPORT STRUCTURE, OVERHEAD DOORS AND METAL DOORS.
- 3 REMOVE AND DISPOSE OF EXISTING STEEL STAIR, LANDINGS AND SUPPORT STRUCTURE.
- 4A REMOVE AND DISPOSE OF EXISTING ARTIFICIAL TURF/CRUMB RUBBER DOWN TO CONCRETE. AS PER DEMOLITION SPECIFICATIONS. PREPARE AREA TO RECEIVE NEW CONCRETE SLAB.
- 4B REMOVE AND DISPOSE OF EXISTING TENNIS COURT MATERIAL DOWN TO CONCRETE. AS PER DEMOLITION SPECIFICATIONS. PREPARE AREA TO RECEIVE NEW CONCRETE SLAB.
- 4C REMOVE AND DISPOSE OF EXISTING TRACK SURFACE MATERIAL DOWN TO CONCRETE. AS PER DEMOLITION SPECIFICATIONS. PREPARE AREA TO RECEIVE NEW CONCRETE SLAB.
- 4D REMOVE AND DISPOSE OF EXISTING FLOOR FINISHES DOWN TO CONCRETE. PREPARE AREA TO RECEIVE NEW CONCRETE SLAB.
- 5 REMOVE AND DISPOSE OF EXISTING CHAIN LINK FENCE AS DIRECTED BY THE OWNER.
- 6 REMOVE ALL TENNIS NETTING AND POSTS. SALVAGE ITEMS AS DIRECTED BY THE OWNER.
- 7 CLIP EXISTING PRECAST CONCRETE WALL TO RAISE EXISTING DOOR TO NEW SLAB ELEVATION.
- 8 RAISE EXISTING EXIT SIGNS AND EMERGENCY LIGHTS AS REQUIRED.
- 9 REMOVE SLAB IN THIS AREA. PREPARE AREA TO RECEIVE NEW WORK. COORDINATE WITH STRUCTURAL AND TRACK DRAWINGS.
- 10 REMOVE CONCRETE PAD. REMOVE ASSOCIATED SUBSTRATE AND PREPARE AREA FOR NEW WORK.
- 11 DEMOLISH CONCRETE RAMP AND SIDEWALK DRIVE AND TRENCH DRAIN. REMOVE ASSOCIATED SUBSTRATE AND PREPARE AREA FOR NEW WORK.
- 12 REMOVE CONCRETE PAD AND ASSOCIATED SUBSTRATE. REGRADE/INFILL AREA FOR NEW LANDSCAPING TO MATCH ADJACENT.
- 13 REMOVE CONCRETE PAD/STEPS AND ASSOCIATED FOUNDATIONS. REMOVE ASSOCIATED SUBSTRATE AND PREPARE AREA FOR NEW WORK.
- 14 REMOVE CONCRETE PAD/STEPS AND ASSOCIATED FOUNDATIONS. REGRADE/INFILL AREA FOR NEW LANDSCAPING TO MATCH ADJACENT.

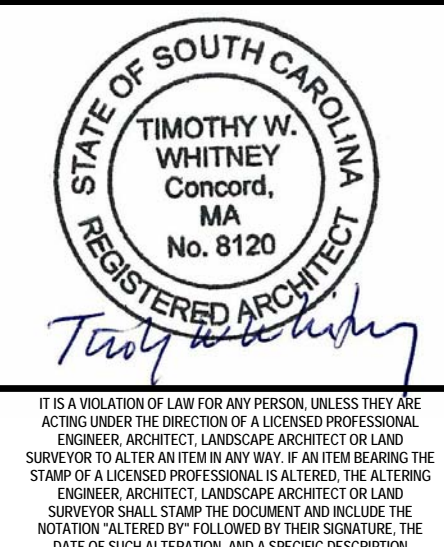
- GENERAL DEMOLITION NOTES**
- A. REMOVE ALL ITEMS SHOWN DASHED. COORDINATE DEMOLITION WITH ALL TRADES. PERFORM ALL DEMOLITION REQUIRED TO COMPLETE INSTALLATION OF NEW WORK.
 - B. REMOVE ALL WALL MOUNTED ITEMS WITHIN THE FIELDHOUSE AS DIRECTED BY THE OWNER.
 - C. WHERE (E) DOORS ARE SHOWN TO BE REMOVED, REMOVE (E) FRAME UNLESS NOTED OTHERWISE.
 - D. REMOVE ALL LOOSE ITEMS FROM THE BUILDING INCLUDING BUT NOT LIMITED TO SPORTS EQUIPMENT AS DIRECTED BY THE OWNER.
 - E. EXTENT OF ELECTRICAL DEMOLITION IS AS SHOWN ON ELECTRICAL PLANS.
 - F. COORDINATE EXTENT OF SLAB REMOVAL WITH STRUCTURAL DEMOLITION PLANS AND TRACK DRAWINGS.
 - G. ALL DIMENSIONS PROVIDED ARE +/- ACTUAL. REQUIRED OPENINGS TO BE VERIFIED BY CONTRACTOR.



2 PARTIAL EXTERIOR ELEVATION - DEMOLITION
1/4" = 1'-0"



3 PARTIAL INTERIOR ELEVATION - DEMOLITION
1/4" = 1'-0"



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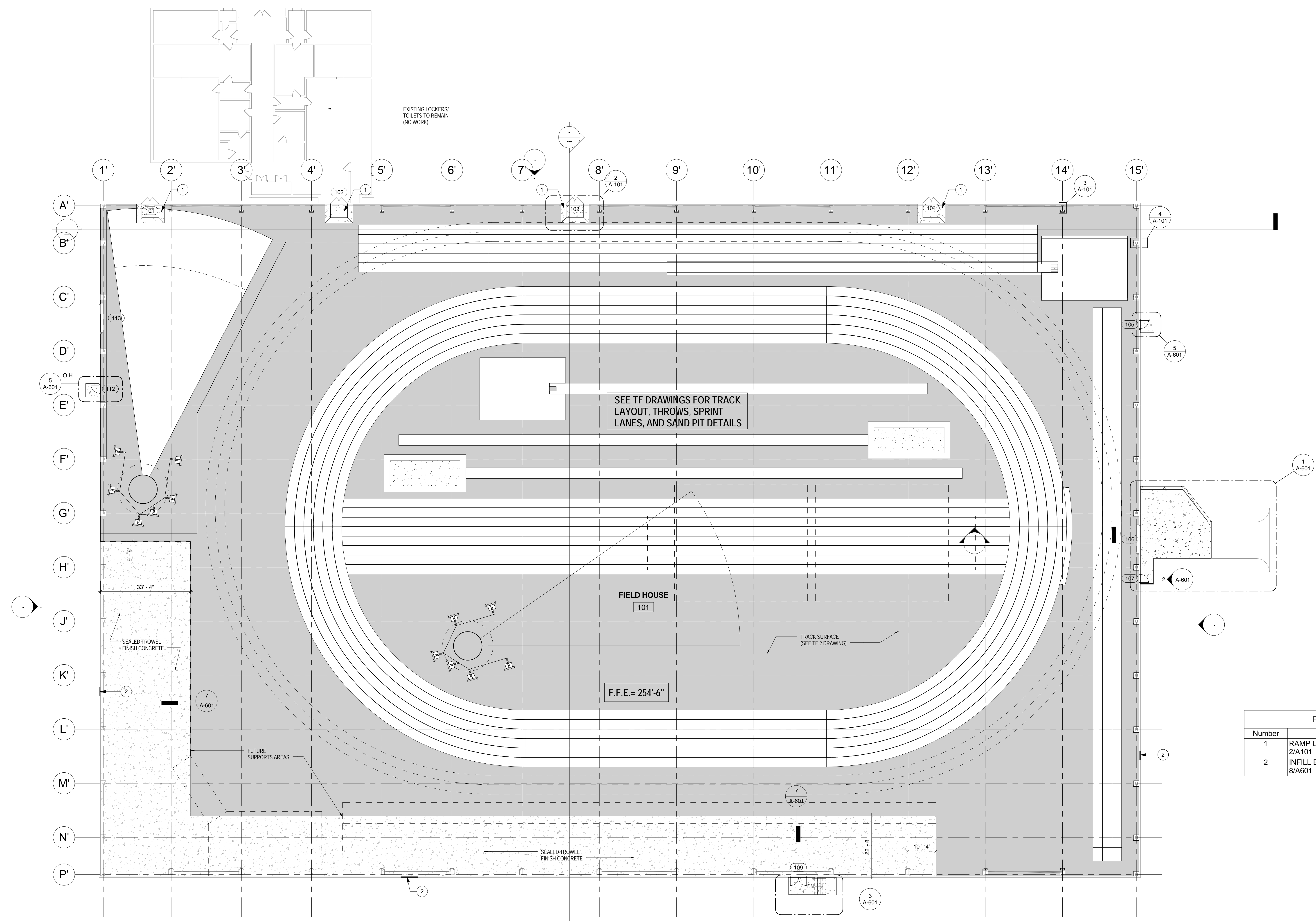
No.	Submittal / Revision	App'd	By	Date
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ISSUED FOR BID DR: KRA | 08/01/16

DEMOLITION PLAN

Designed By: KRA	Drawn By: CC	Checked By: TW
Issue Date: 08/01/16	Project No: 27482	Scale: AS SHOWN

Drawing No:
AD-101



SEE TF DRAWINGS FOR TRACK LAYOUT, THROWS, SPRINT LANES, AND SAND PIT DETAILS

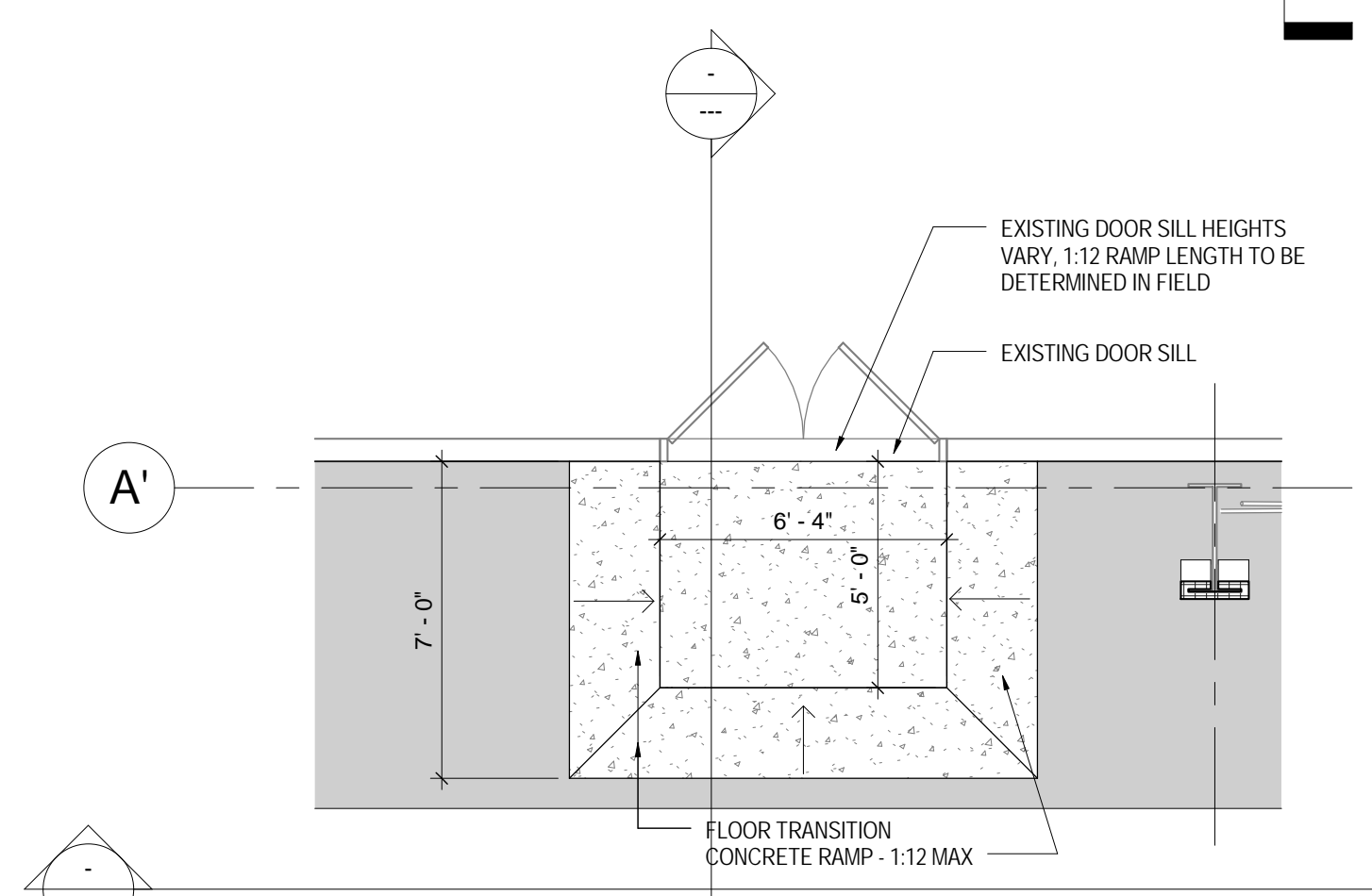
FIELD HOUSE 101

F.F.E. = 254'-6"

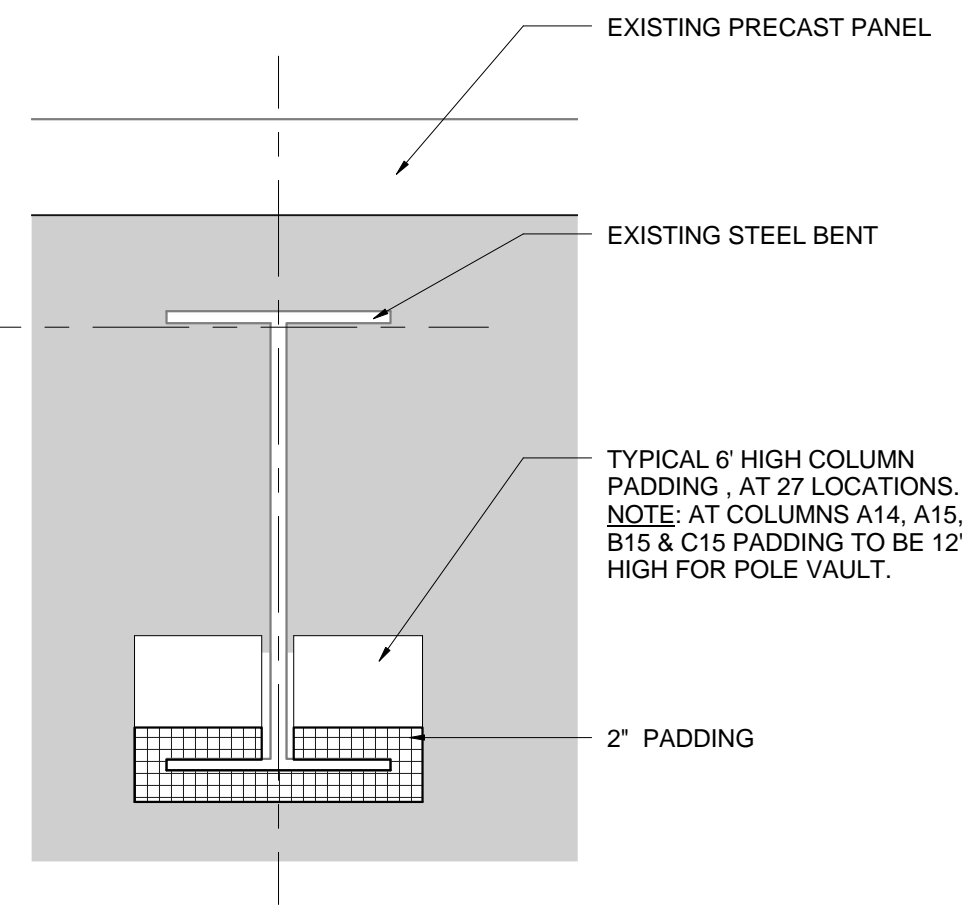
FLOOR PLAN KEYNOTES #

Number	Description
1	RAMP UP TO EXISTING DOOR SILL, SEE DETAIL 2/A101
2	INFILL EXISTING DOOR OPENING, SEE DETAIL 8/A601

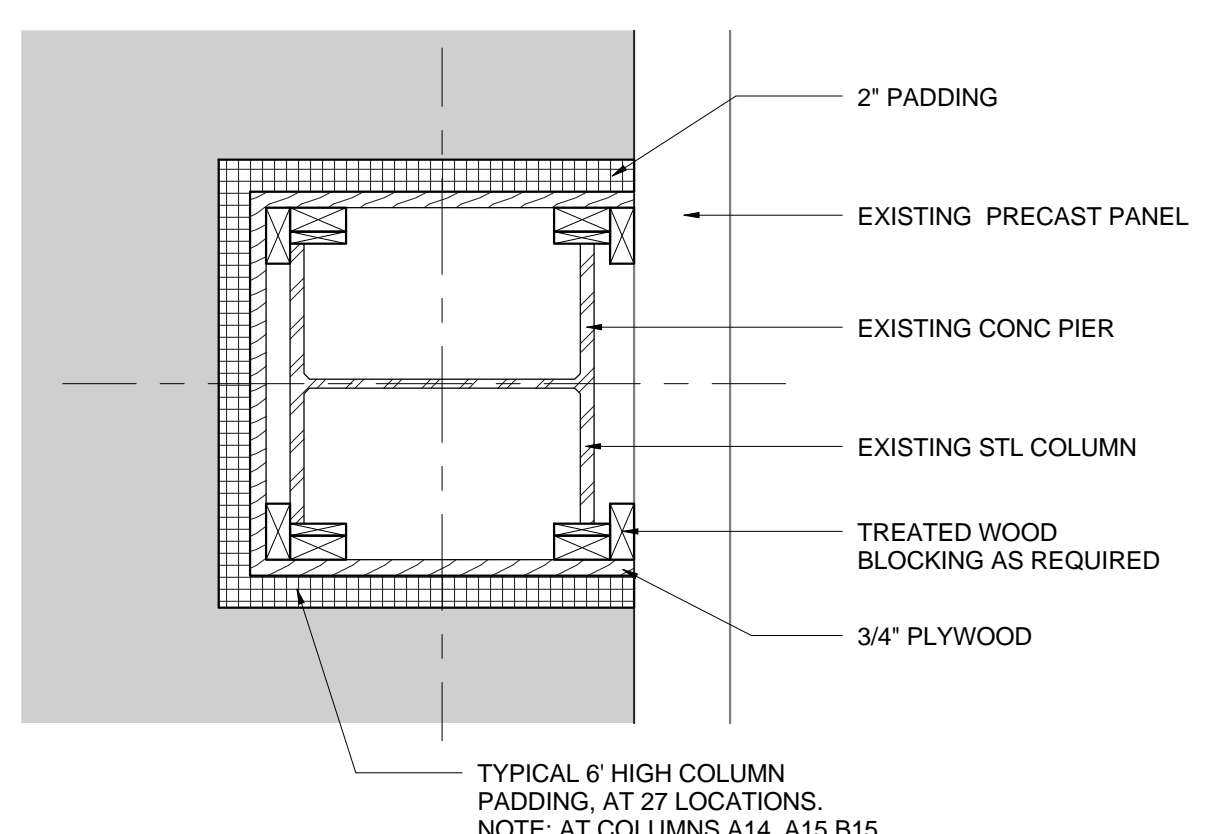
1 TRACK LEVEL PLAN
1/16" = 1'-0"



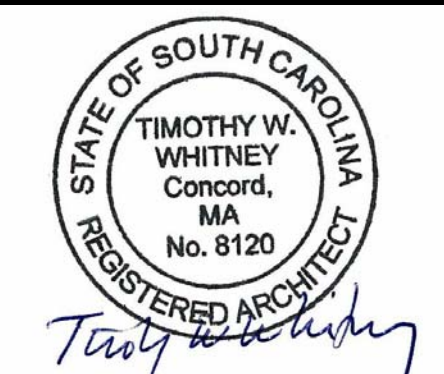
2 TYPICAL RAMP DETAIL
1/4" = 1'-0"



3 IMPACT SAFE BENT PAD DETAIL
1" = 1'-0"



4 IMPACT SAFE COLUMN PAD DETAIL
1" = 1'-0"



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR SURVEYOR TO SEAL, SIGN OR SEAL ANY SET OF DRAWINGS OR THE SEAL OF A LICENSED PROFESSIONAL IS ALTERED. THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE REASONING FOR THE ALTERATION. THE REASONING SHALL BE IN WRITING AND SHALL BE FILED WITH THE BOARD OF ARCHITECTURE AND SPECIFIC DESCRIPTION OF THE ALTERATION.



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ISSUED FOR BID | DR | KRA | 08/01/16

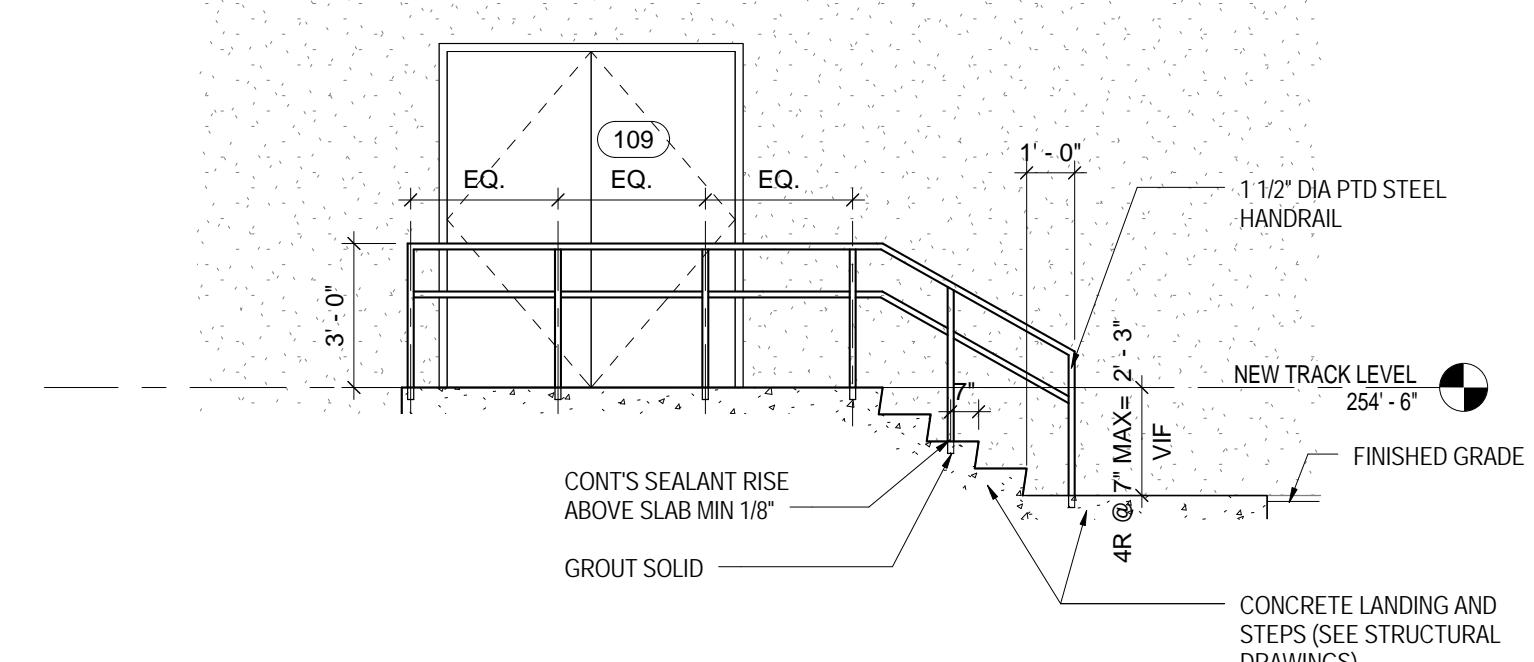
TRACK LEVEL FLOOR PLAN

Designed By:	Drawn By:	Checked By:
KRA	CC	TW

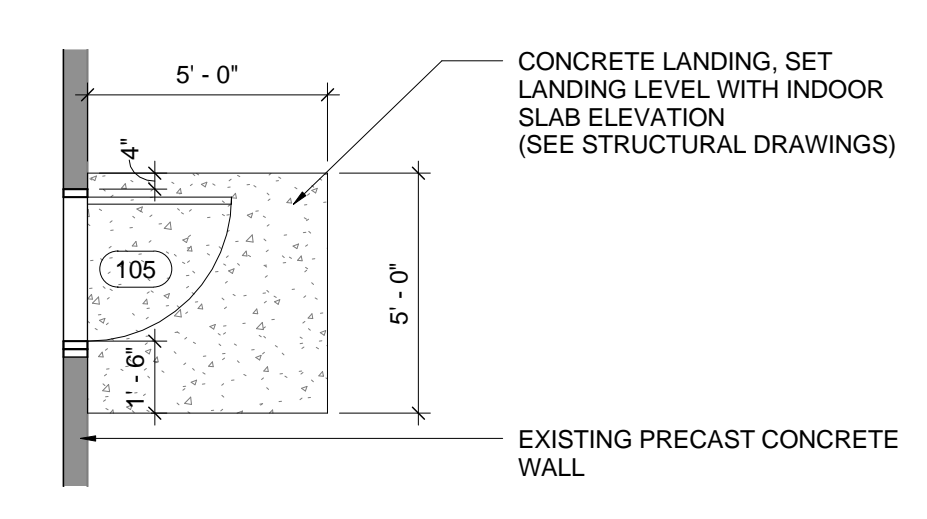
Issue Date:	Project No.:	Scale:
08/01/16	27482	AS SHOWN

Drawing No:

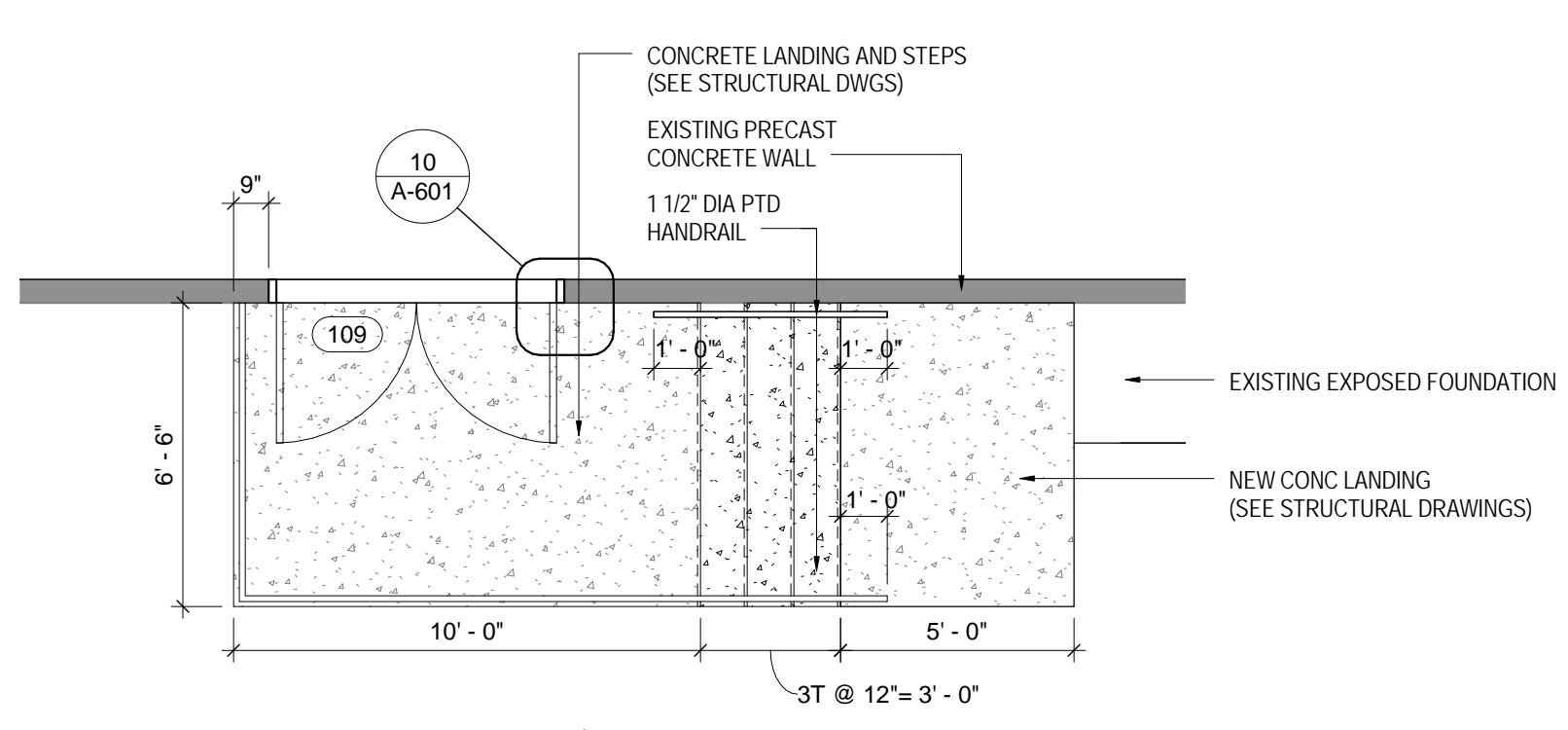
A-101



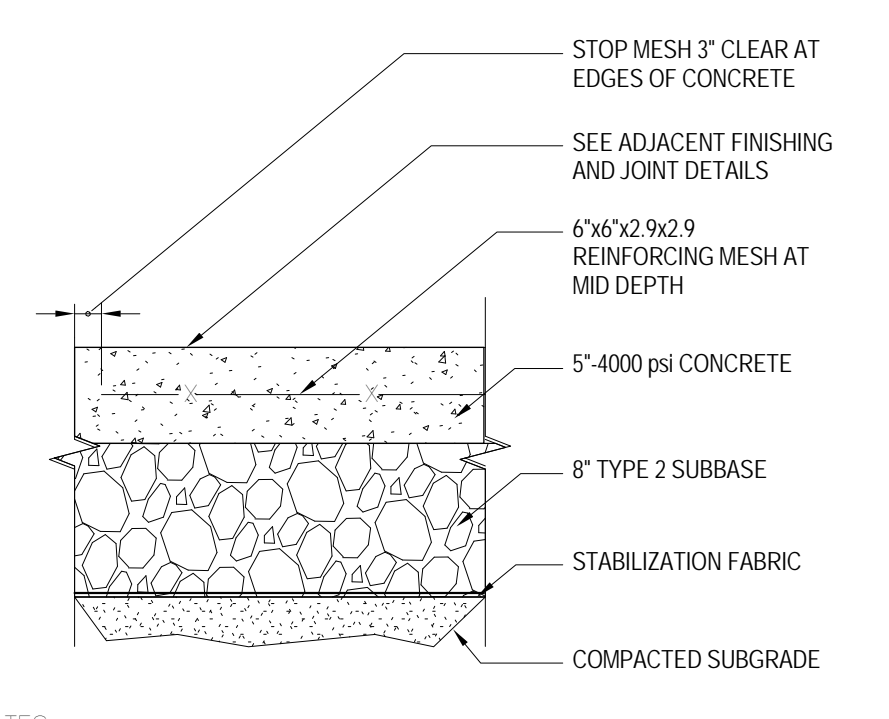
4 ELEVATION AT LANDING/STEPS
1/4" = 1'-0"



5 ENLARGED LANDING PLAN
1/4" = 1'-0"



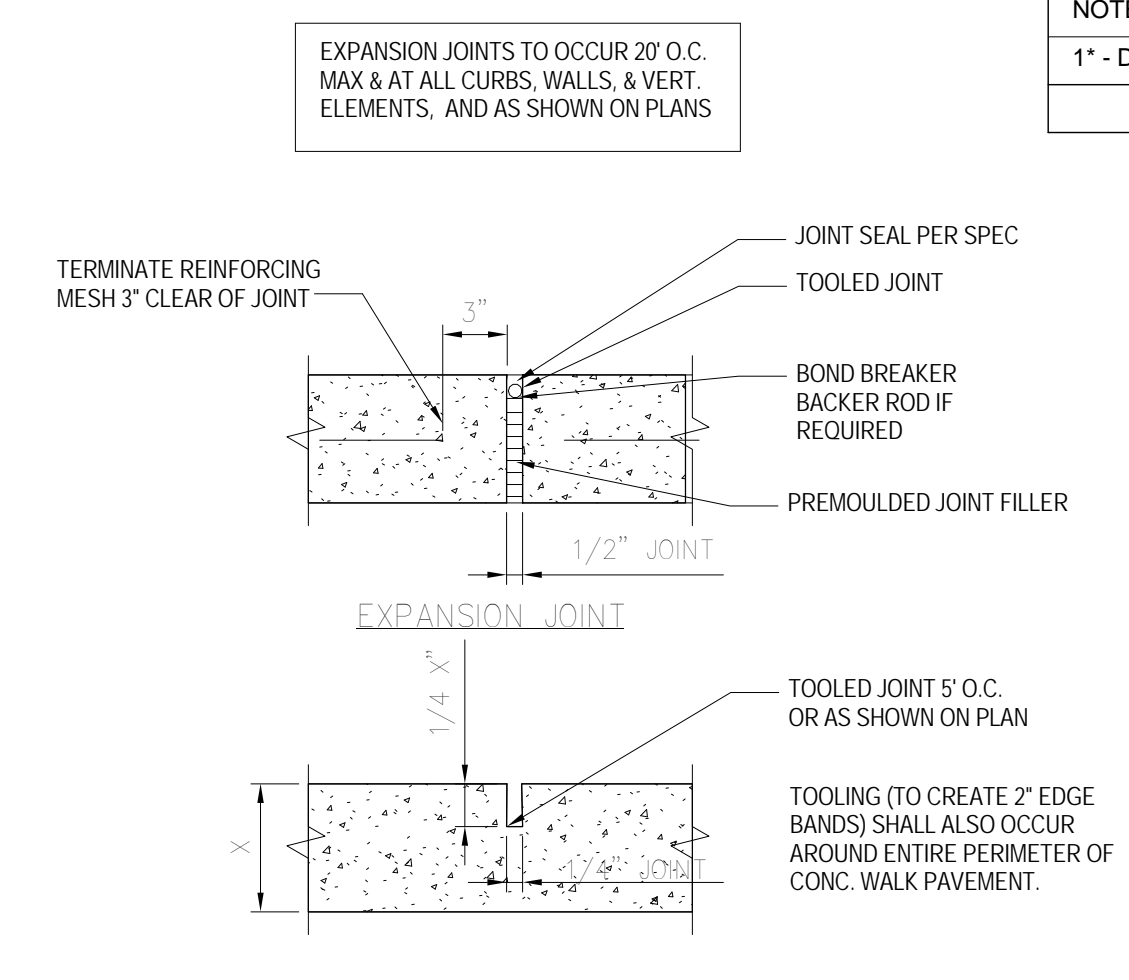
3 ENLARGED LANDING/STEPS PLAN
1/4" = 1'-0"



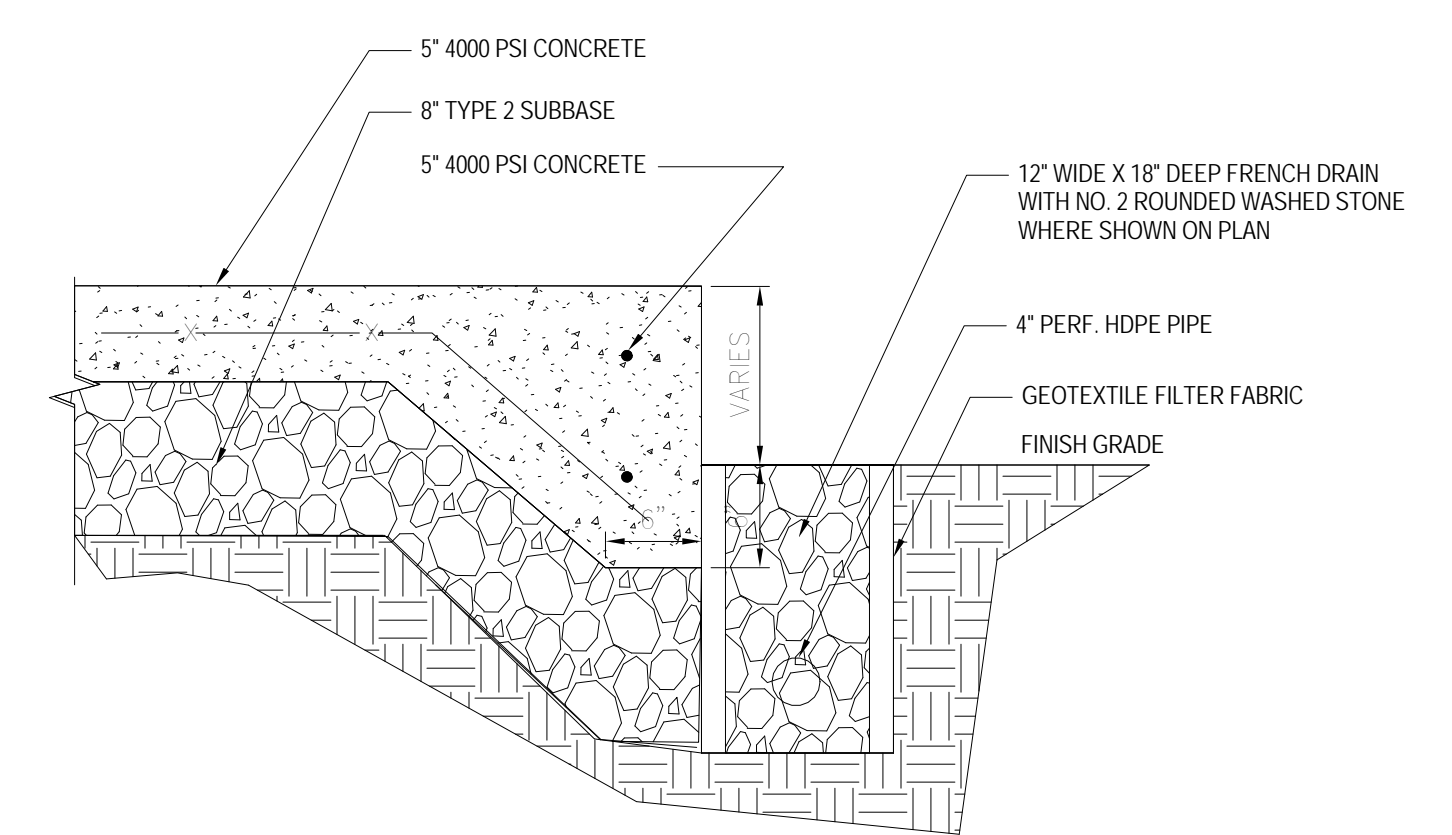
NOTES:

- EXPANSION JOINTS TO BE PLACED BETWEEN ADJACENT SLABS, AT BUILDING LINE, AT CURBS, OR AT PENETRATING STRUCTURES, MAX 20'-0" O.C. (SEE ADJACENT DETAILS)
- LOCATE CONTROL JOINTS AS SHOWN ON PLAN OR MAX 5'-0" O.C. ADJUST TIGHT AREAS TO EQUAL SPACING.

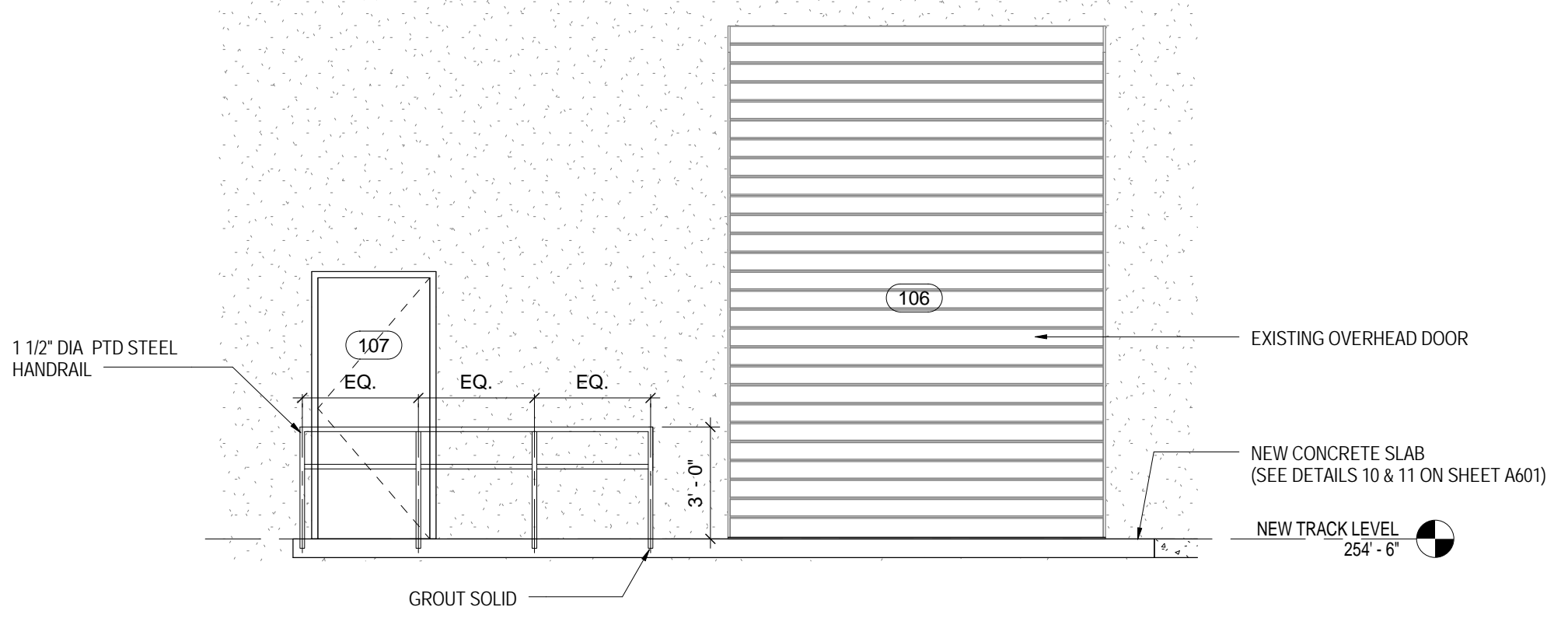
10 CONCRETE PAVEMENT
N.T.S.



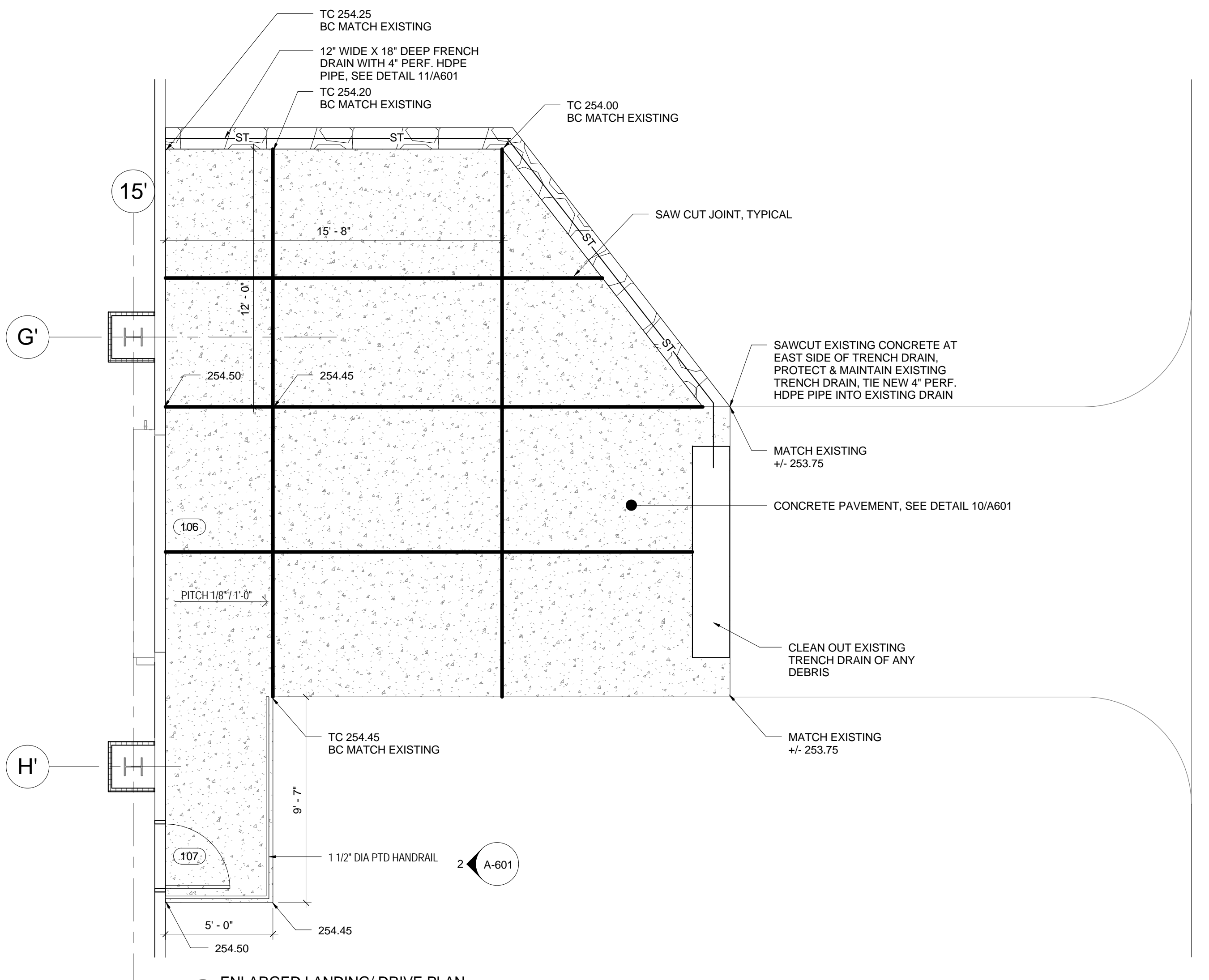
SCORE/CONTROL JOINT



11 HAUNCH SLAB CONCRETE AND FRENCH DRAIN
N.T.S.



2 ELEVATION AT LANDING
1/4" = 1'-0"

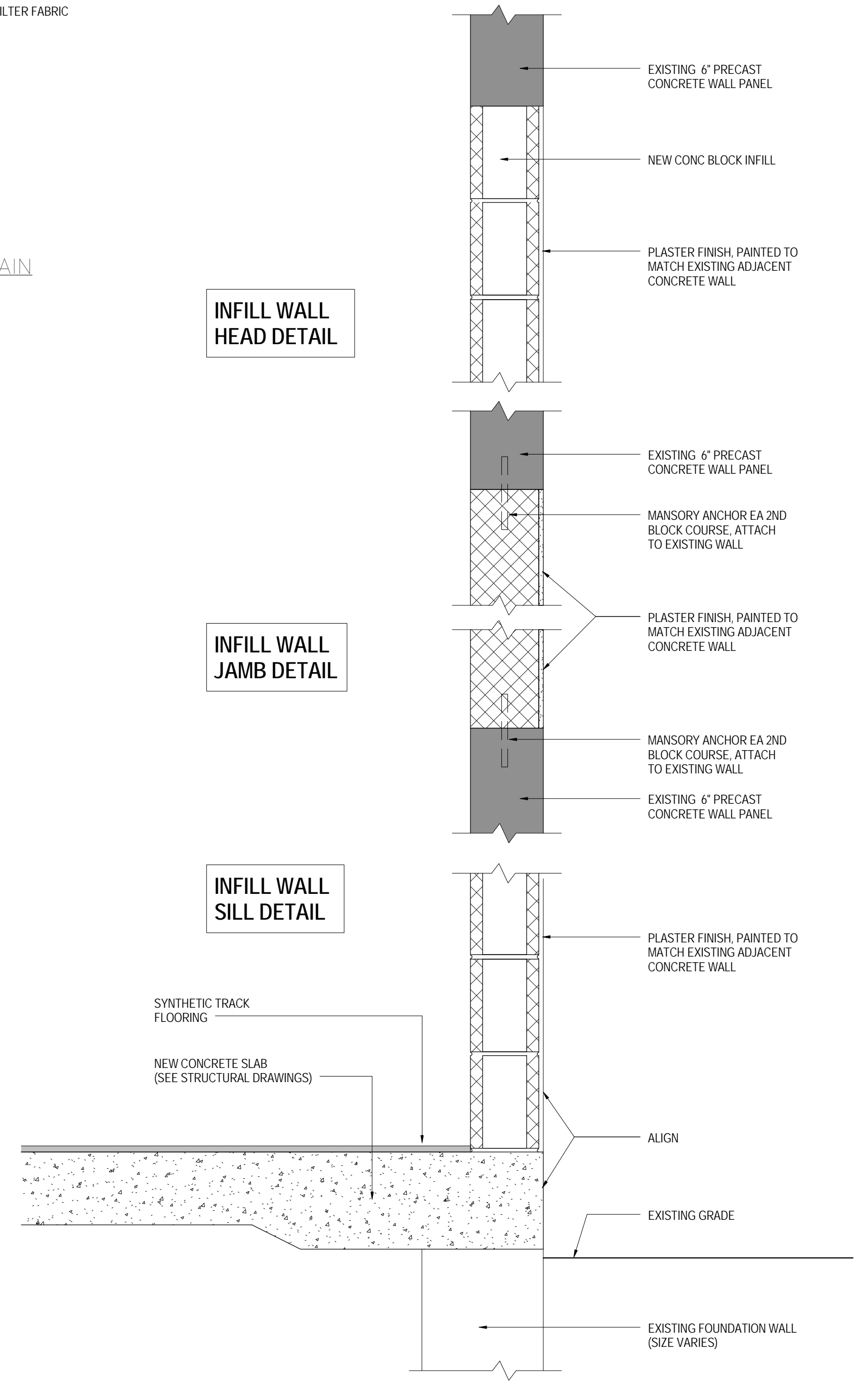


1 ENLARGED LANDING/ DRIVE PLAN
1/4" = 1'-0"

INFILL WALL HEAD DETAIL

INFILL WALL JAMB DETAIL

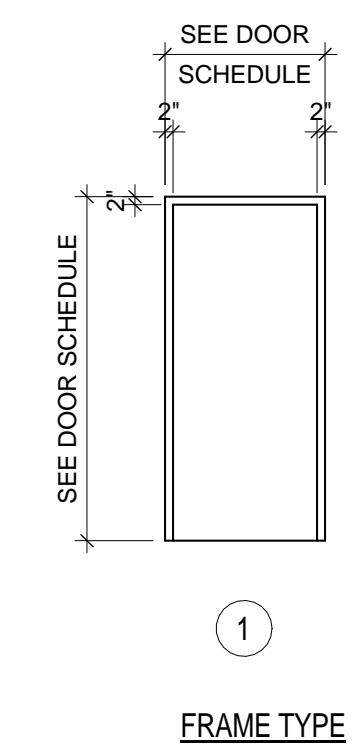
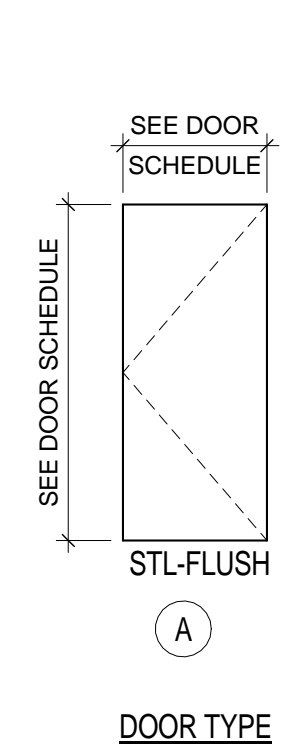
INFILL WALL SILL DETAIL



8 INFILL AT EXISTING DOOR OPENINGS
1 1/2" = 1'-0"

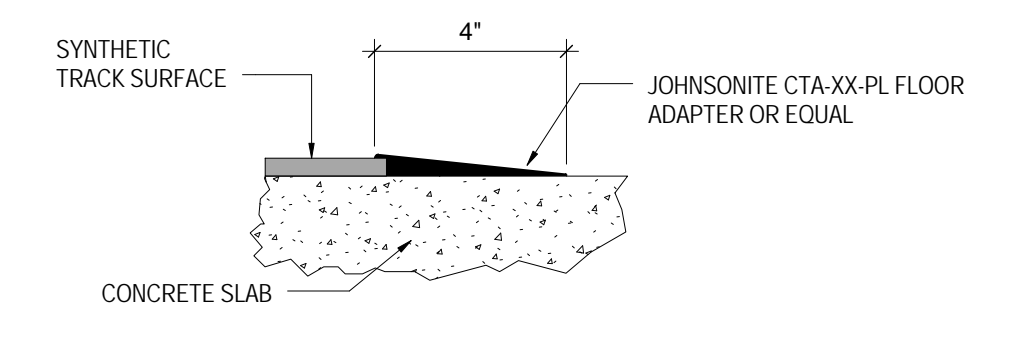
DOOR NUMBER	ROOM NAME	DOOR					FRAME				COMMENTS	
		WIDTH	HEIGHT	MATERIAL	THICKNESS	TYPE	SILL	JAMB	HEAD	TYPE		
101	FIELD HOUSE	N/A	N/A	EXISTING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	REMAINS AS IS
102	FIELD HOUSE	N/A	N/A	EXISTING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	REMAINS AS IS
103	FIELD HOUSE	N/A	N/A	EXISTING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	REMAINS AS IS
104	FIELD HOUSE	N/A	N/A	EXISTING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	REMAINS AS IS
105	FIELD HOUSE	3'-0"	7'-0"	HM	0'-1 3/4"	A	9A/A601	9B/A601	9B/A601	1		
106	FIELD HOUSE	N/A	N/A	EXISTING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1"
107	FIELD HOUSE	3'-0"	7'-0"	HM	0'-1 3/4"	A	9A/A601	9B/A601	9B/A601	1		
109	FIELD HOUSE	6'-0"	7'-0"	HM	0'-1 3/4"	A	9A/A601	9B/A601	9B/A601	1		
112	FIELD HOUSE	3'-0"	7'-0"	HM	0'-1 3/4"	A	9A/A601	9B/A601	9B/A601	1		
113	FIELD HOUSE	N/A	N/A	EXISTING	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1"

NOTES:
1" - DOOR SILL RAISED 1'-0" +/-, SHORTEN JAMB GUIDES AS REQUIRED.

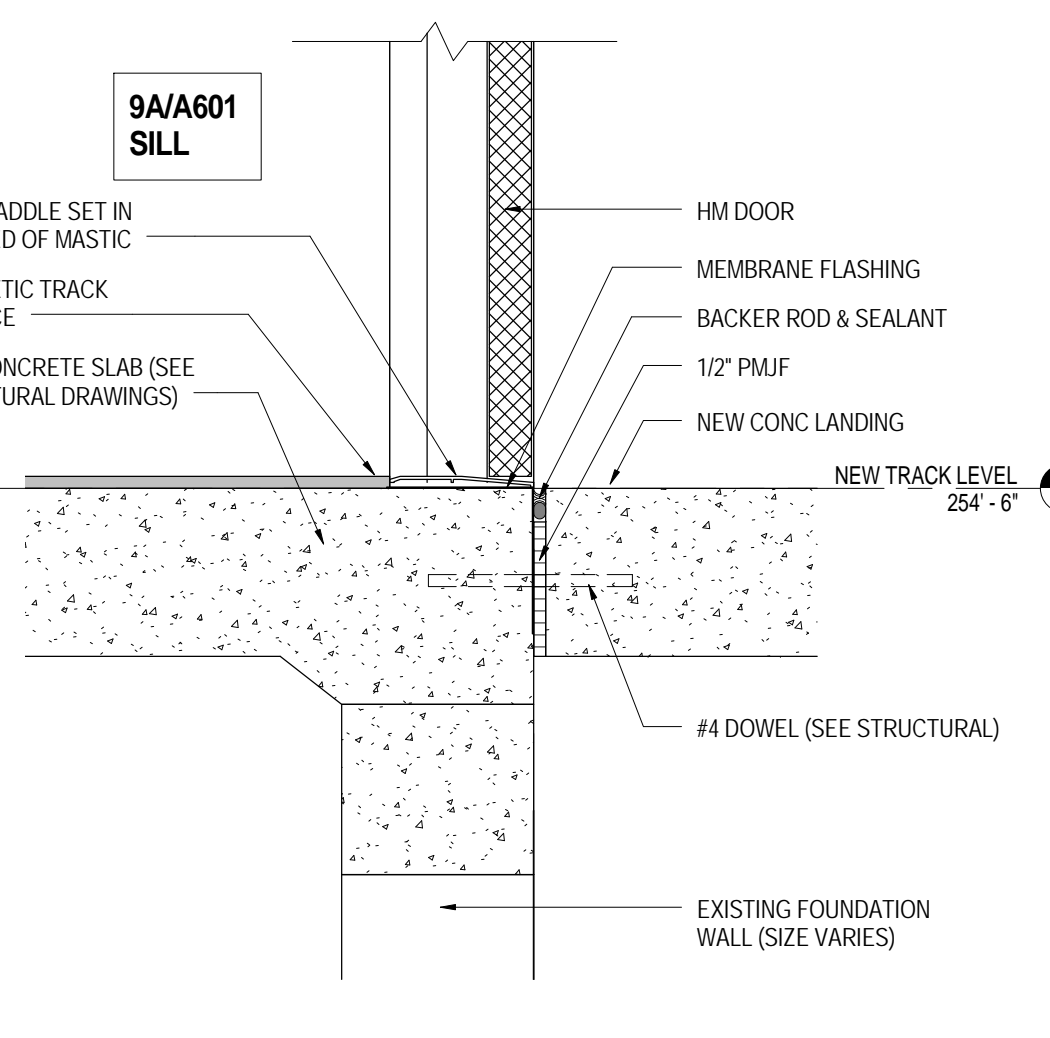
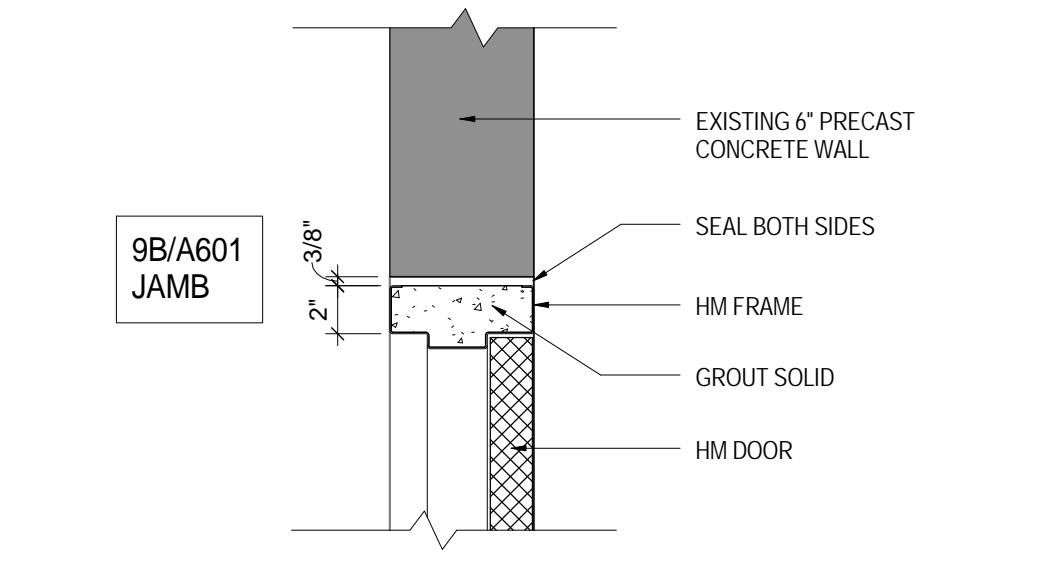
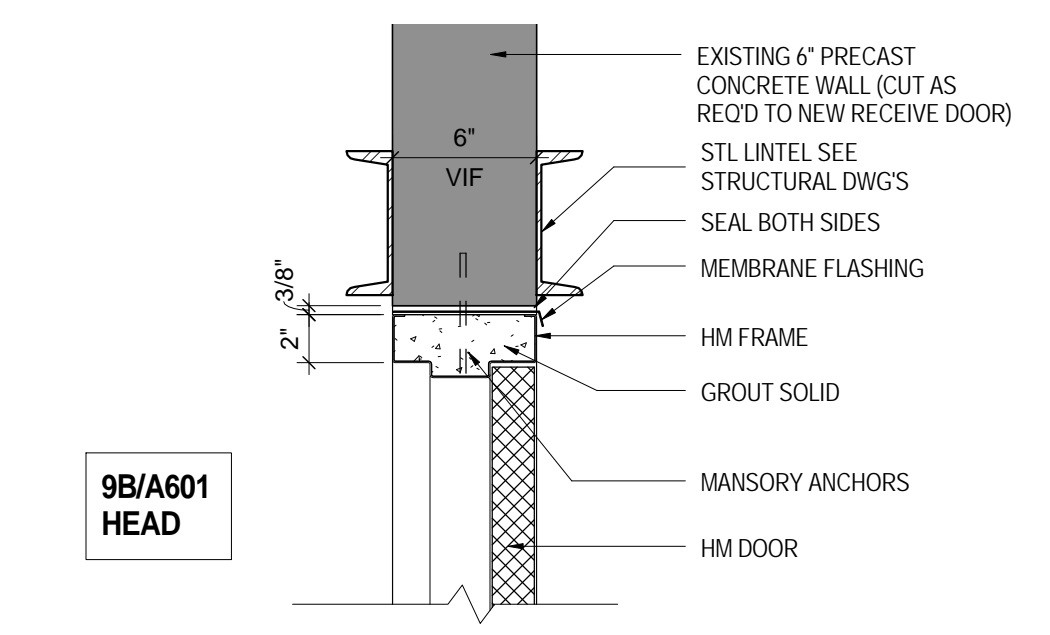


GENERAL DOOR NOTES

- VERIFY ALL OPENINGS DIMENSIONS IN FIELD
- PAINT ALL EXISTING AND NEW DOORS AND FRAMES
- RAISE EXISTING EXIT SIGNS AND EMERGENCY LIGHTING AT 4 DOORS TO BE RAISED
- WHERE SPECIFIED EXISTING DOOR HEIGHT TO BE MODIFIED AS REQUIRED TO INSTALL NEW DOOR



7 SYNTHETIC TRACK SURFACE TO CONCRETE TRANSITION DETAIL
3' = 1'-0"



9 TYPICAL DOOR DETAIL
1 1/2" = 1'-0"



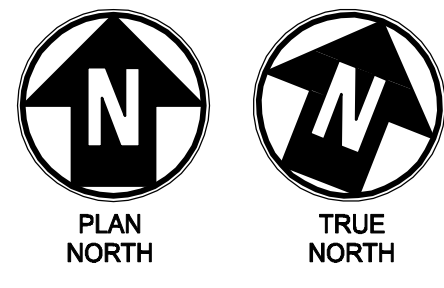
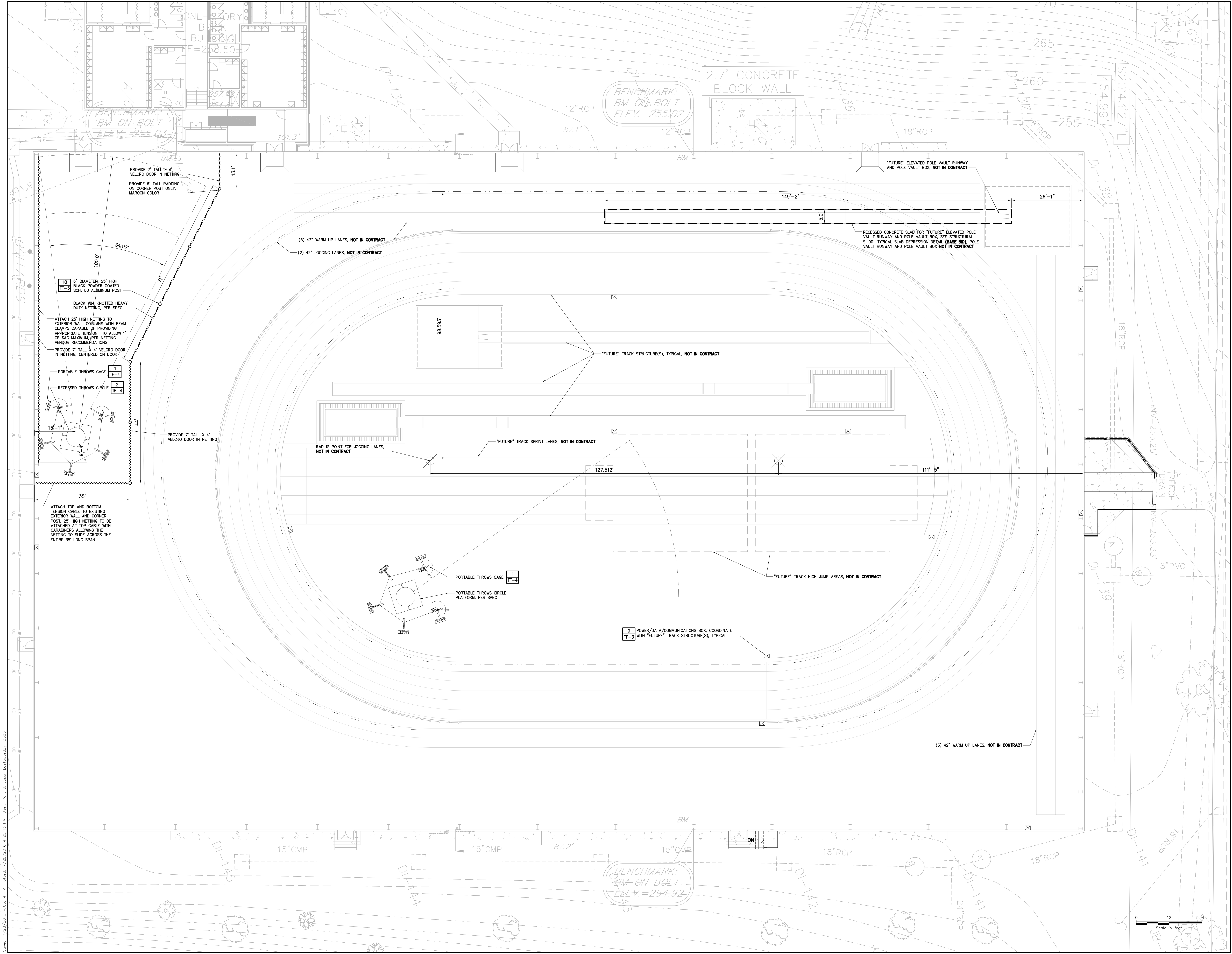
UNIVERSITY OF SOUTH CAROLINA
ATHLETIC VILLAGE IMPROVEMENTS - FIELD HOUSE CONVERSION
116 MARION STREET
COLUMBIA, SC 29205
STATE PROJECT NO: #H77-6105-MJ.C

No. | Submittal | Revision | App'd | By | Date

DOOR SCHEDULE AND DETAILS

Designed By: Designer
Drawn By: Author
Checked By: Checker
Issue Date: 08/01/16
Project No: 27482
Scale: AS SHOWN

Drawing No: A-601



IT IS A CONDITION OF AWARD FOR ANY PROJECT, BASED UPON THE AGREEMENT OF THE CLIENT AND THE DESIGNER, THAT THE DESIGNER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROJECT FROM UNAUTHORIZED ACCESS OR ALTERATION. THE DESIGNER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROJECT FROM UNAUTHORIZED ACCESS OR ALTERATION.



UNIVERSITY OF SOUTH CAROLINA
ATHLETIC VILLAGE IMPROVEMENTS - FIELD HOUSE CONVERSION
116 MARION STREET
COLUMBIA, S.C. 29205
STATE PROJECT NO: H27-6105-MJ-C

No.	Submitted / Revision	Appr.	By	Date

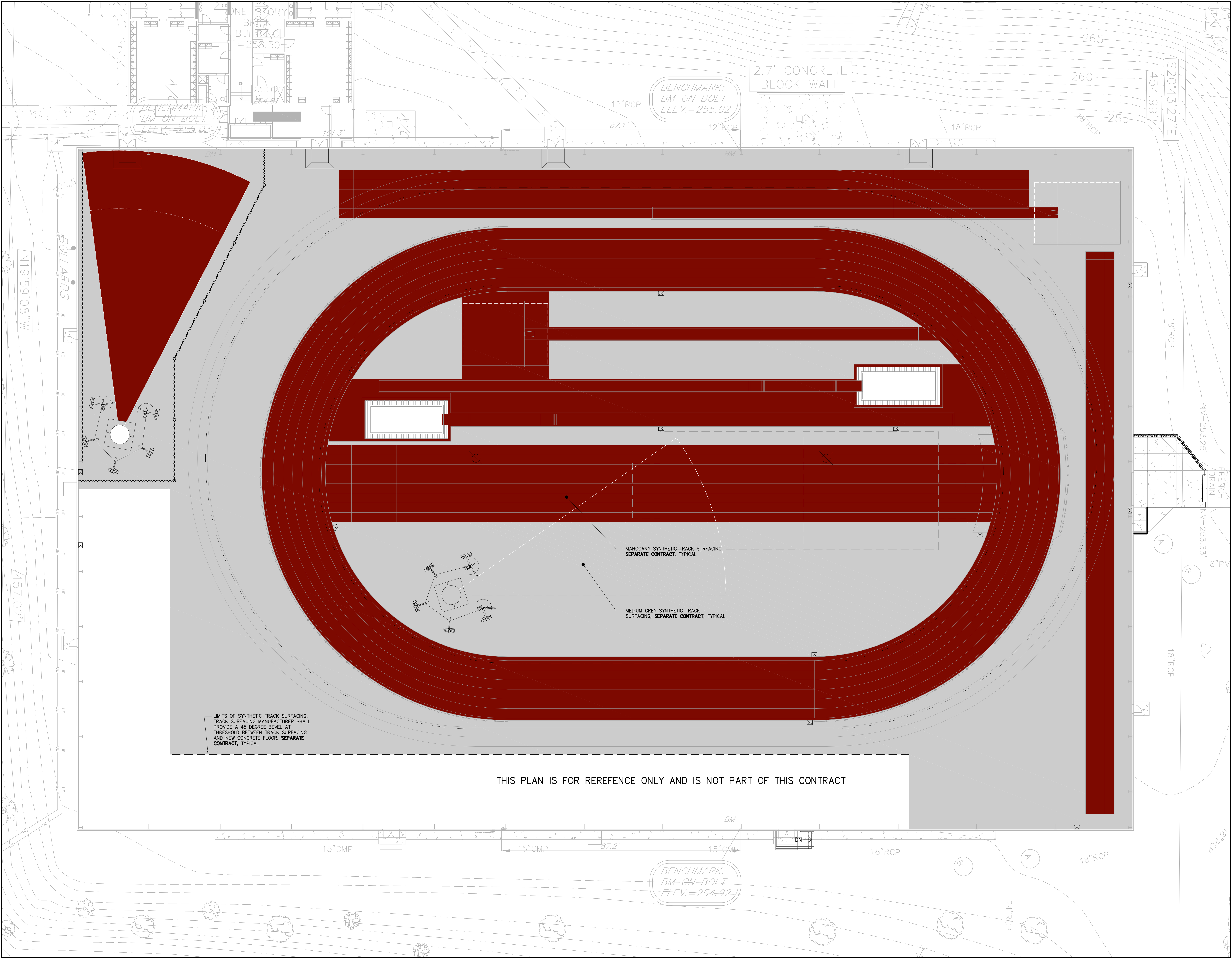
ISSUED FOR BID	DB	JRP	08/01/16
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TRACK LAYOUT PLAN

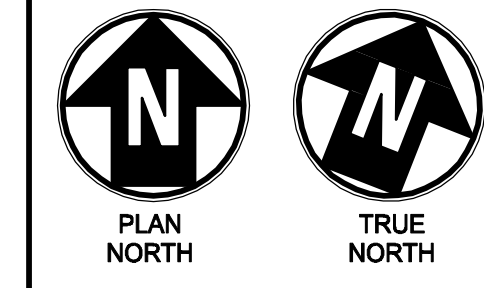
Designed By:	Drawn By:	Checked By:
JRP	JRP	EJO
Issue Date:	Project No:	Scale:
08-01-2016	27482	AS SHOWN

Drawing No.:
TF-1

File: W:\PROJECTS\WV\K3\27482\CADD\CADD\TF-1 TRACK LAYOUT PLAN.DWG
Sheet: 7/29/2016 4:03:14 PM Plot Date: 7/29/2016 4:20:13 PM User: jbarlow Jobno: LSC0000002_3053



THIS PLAN IS FOR REREFENCE ONLY AND IS NOT PART OF THIS CONTRACT



IT IS A CONDITION OF BIDDING FOR ANY PROJECT, BASED HEREON, THAT THE BIDDERS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES OF THE STATE OF SOUTH CAROLINA. THE BIDDERS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES OF THE STATE OF SOUTH CAROLINA.



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COLUMBIA, S.C. 29205
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No. Submittal / Revision Appr. By Date

ISSUED FOR BID DR JRP 08/01/16

TRACK SURFACING PLAN

Designed By: JRP
Issue Date: 08-01-2016
Drawn By: JRP
Project No: 27482
Checked By: EJO
Scale: AS SHOWN

Drawing No.: TF-2

1 NOT USED
SCALE: 1/2"=1'-0"

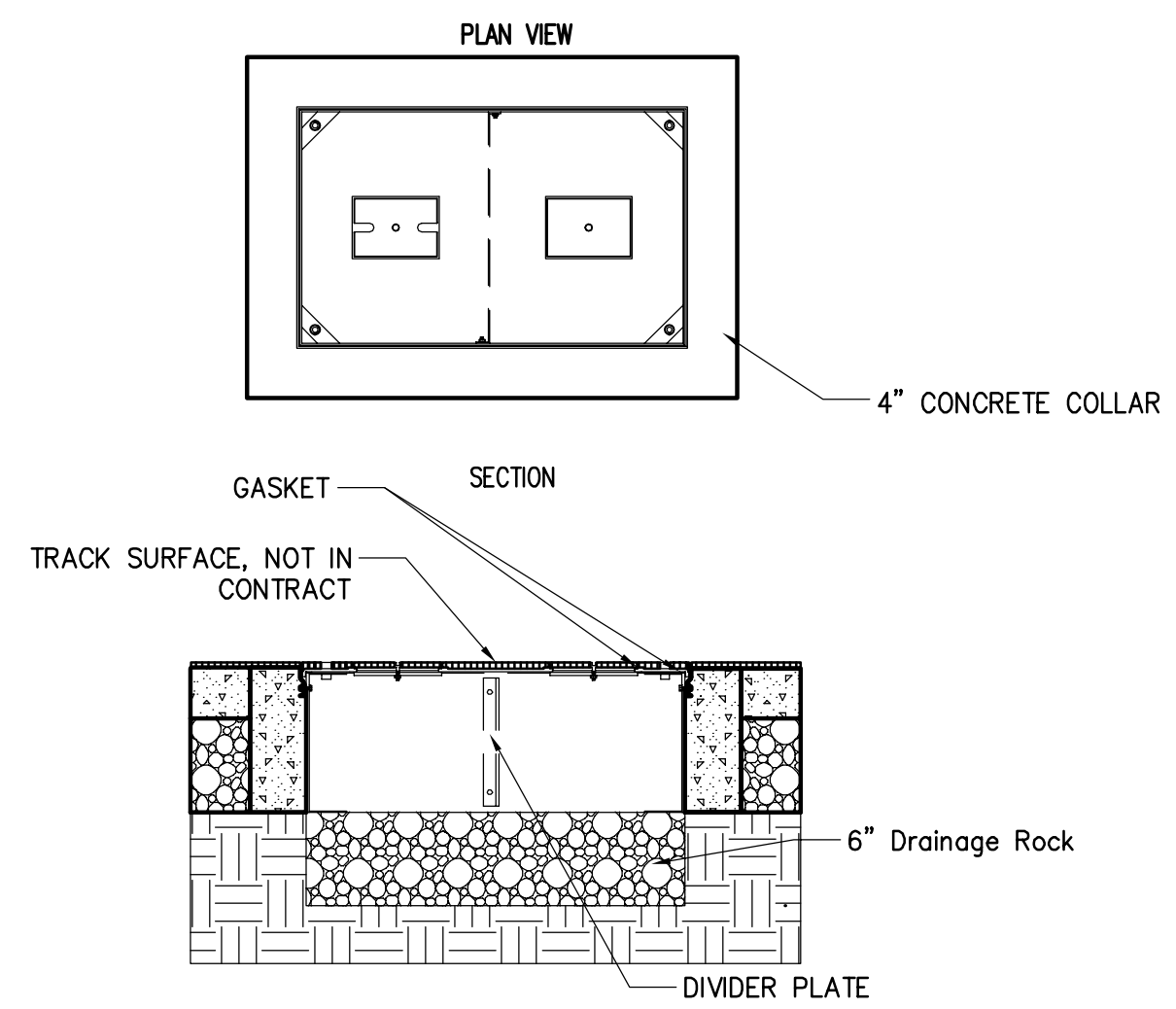
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SCALE: NTS

6 NOT USED
SCALE: NTS

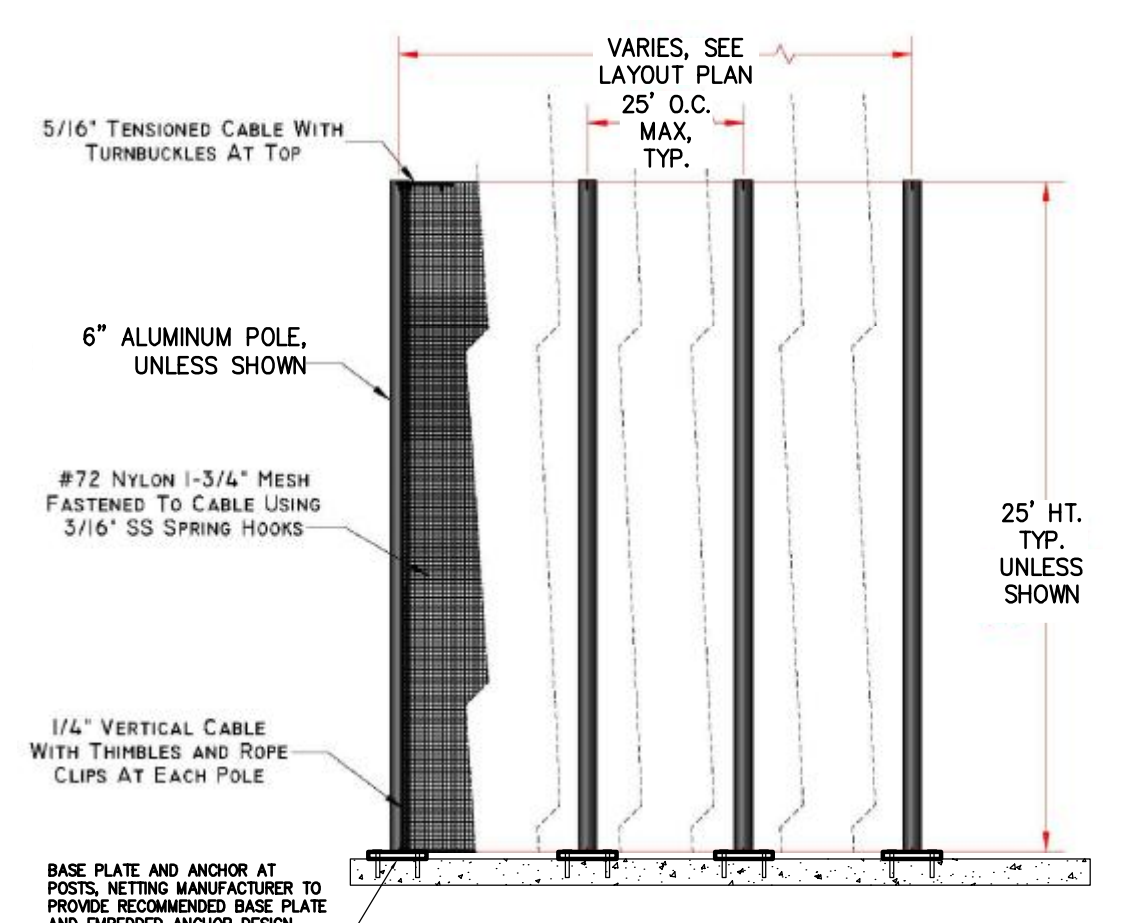
2 NOT USED
SCALE: 1/2"=1'-0"

7 NOT USED
SCALE: NTS

3 NOT USED
SCALE: NTS



NOTES:
1. JUNCTION BOX IS SET SO THAT SYNTHETIC TRACK SURFACING IS ULTIMATELY FLUSH TO THE SURROUNDING TRACK SURFACE.

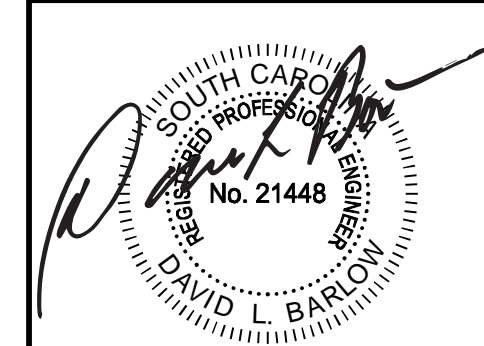
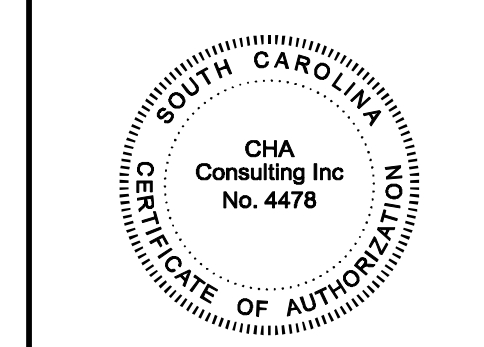
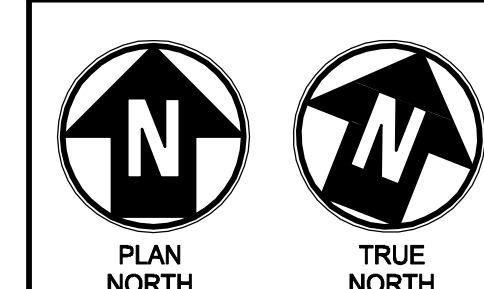


4 NOT USED
SCALE: NTS

8 NOT USED
SCALE: NTS

9 COMMUNICATIONS BOX - SECTION
SCALE: NTS

10 PROTECTIVE NETTING SYSTEM PLAN AND FOUNDATION
SCALE: NTS



IT IS A CONDITION OF AWARD FOR ANY PERSON, FIRM OR ENTITY TO ACCEPT THE DESIGN OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR PROFESSIONAL SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE SIGNATURE AND SEAL OF THE PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR PROFESSIONAL SURVEYOR AS REQUIRED BY THE BOARD OF PROFESSIONAL ENGINEERS AND SURVEYORS OF THE STATE OF SOUTH CAROLINA.



UNIVERSITY OF SOUTH CAROLINA
ATHLETIC VILLAGE IMPROVEMENTS - FIELD HOUSE CONVERSION
116 MARION STREET
COLUMBIA, S.C. 29205

STATE PROJECT NO.: H27-6105-MJ-C

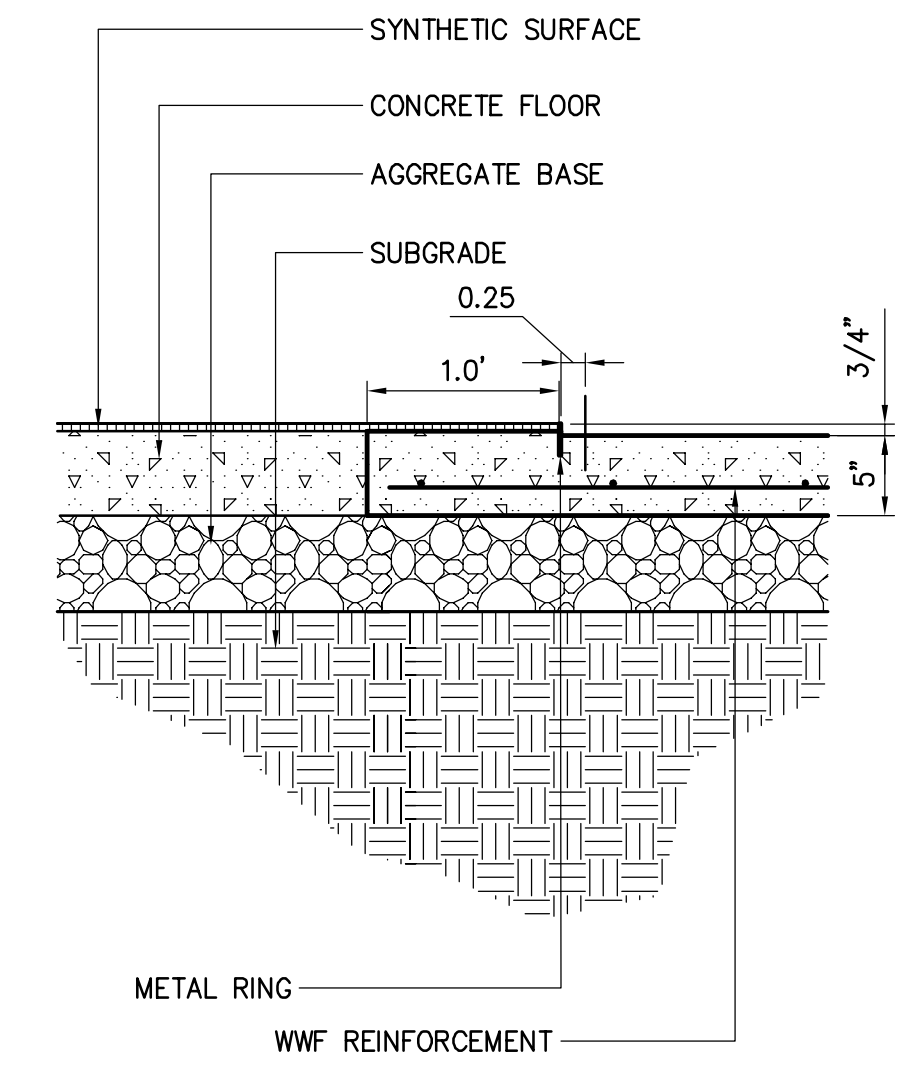
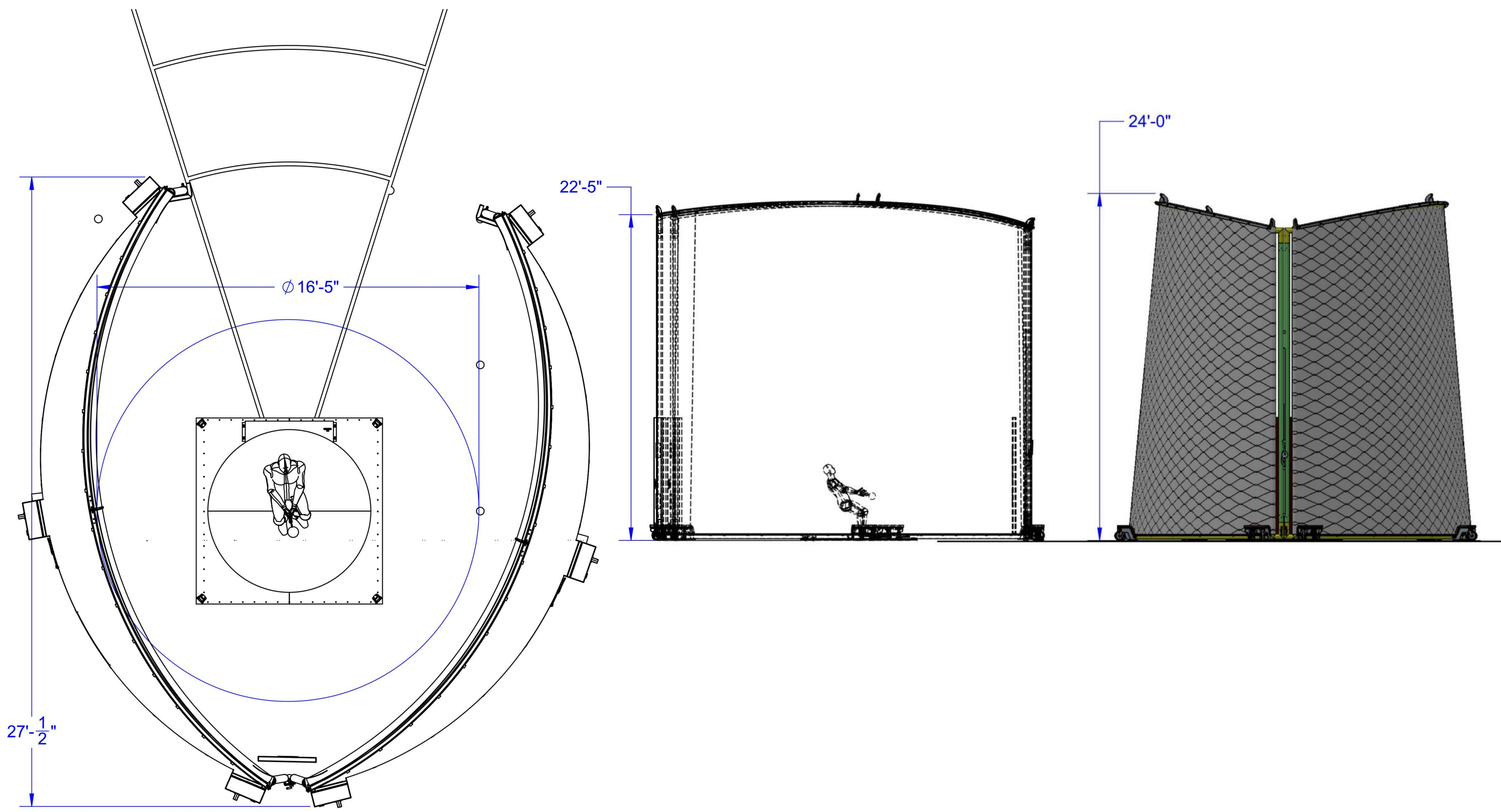
No.	Submitted / Revision	Appr. By	Date

ISSUED FOR BID DB JRP 08/01/16

TRACK DETAILS

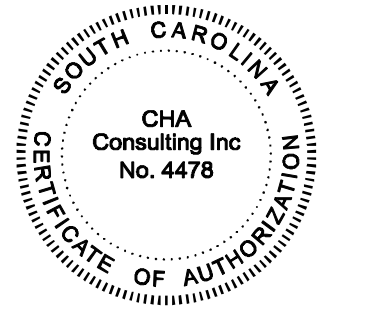
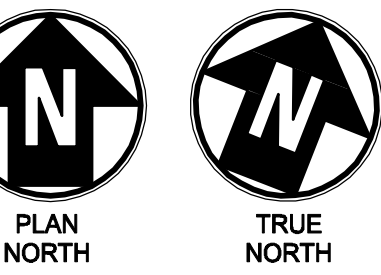
Designed By: JRP	Drawn By: JRP	Checked By: EJO
Issue Date: 08-01-2016	Project No: 27482	Scale: AS SHOWN

Drawing No.:
TF-3



2 SHOTPUT/WEIGHT THROW CIRCLE – SECTION
SCALE: 1"=3'-0"

1 SHOTPUT/WEIGHT THROW CAGE – PLAN AND SECTION
SCALE: 1"=3'-0"



IT IS A CONDITION OF BIDDING FOR ANY PERSON, FIRM OR ENTITY WHOSE NAME IS APPEARED ON THE LIST OF QUALIFIED BIDDERS TO ACCEPT THE OBLIGATION OF A LICENSED PROFESSIONAL ENGINEER TO PROVIDE PROFESSIONAL SERVICES TO THE PROJECT OF THE BIDDING DOCUMENTS. THE BIDDING DOCUMENTS SHALL BE OPENED AT THE TIME AND PLACE SPECIFIED THEREIN AND THE BIDDERS SHALL BE BOUND BY THE TERMS AND CONDITIONS OF THE BIDDING DOCUMENTS. THE BIDDERS SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THE BIDDING DOCUMENTS.



UNIVERSITY OF SOUTH CAROLINA
ATHLETIC VILLAGE IMPROVEMENTS - FIELD HOUSE CONVERSION
116 MARION STREET
COLUMBIA, S.C. 29205
STATE PROJECT NO: H27-6105-MJ-C

No. Submittal / Revision Appr. By Date

ISSUED FOR BID DR JRP 08/01/16

TRACK DETAILS

Designed By: JRP
Drawn By: JRP
Checked By: EJO
Issue Date: 08-01-2016
Project No: 27482
Scale: AS SHOWN

Drawing No.: TF-4

GENERAL NOTES:

- REFER TO THE PROJECT MANUAL FOR GOVERNING JOB REQUIREMENTS AND MATERIAL SPECIFICATIONS. THE FOLLOWING NOTES ARE SUPPLEMENTAL TO THE ABOVE REQUIREMENTS.
- ALL DIMENSIONS TO, OF, AND IN EXISTING STRUCTURES SHALL BE VERIFIED IN FIELD BY CONTRACTOR AND ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- DO NOT CHANGE THE SIZE OR SPACING OF STRUCTURAL ELEMENTS WITHOUT THE APPROVAL OF THE ENGINEER.
- DETAILS SHOWN ARE TYPICAL AND APPLY TO SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- THE DESIGN IS BASED ON THE 2012 INTERNATIONAL BUILDING CODE WITH SOUTH CAROLINA MODIFICATIONS.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE/SHE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS/HER FAILURE TO LOCATE AND PRESERVE ALL UNDERGROUND UTILITIES.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE PRE-APPROVAL BY THE ENGINEER.
- EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE AND COORDINATE HIS/HER WORK WITH THE WORK OF OTHERS.
- VERIFY SIZE AND LOCATION OF OPENINGS PRIOR TO BEGINNING WORK. FOR DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.

FOUNDATION AND SOIL PREPARATION NOTES:

- THE FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING PRESSURE OF 2,500 POUNDS PER SQUARE FOOT AS RECOMMENDED IN THE GEOTECHNICAL REPORT NO. 14-1144-C BY GSS ENGINEERING AND DATED JULY 16, 2014. BEARING STRATUM FOR FOOTINGS SHALL BE VERIFIED IN FIELD BY THE GEOTECHNICAL ENGINEER BEFORE PLACING CONCRETE FOOTINGS.
- THE CONTRACTOR SHALL REVIEW THE REPORT AND BORING LOGS DURING THE BIDDING PHASE OF THE PROJECT.
- BOTTOM OF ALL FOOTINGS SHALL BE A MINIMUM OF 1'-0" BELOW FINAL FINISHED GRADE. ADJUST FOOTING ELEVATIONS AS REQUIRED TO MAINTAIN MINIMUM FROST COVER.
- PROVIDE POSITIVE DRAINAGE FOR ALL TRENCHES DURING CONSTRUCTION. DO NOT ALLOW ANY PONDING OF WATER DURING CONSTRUCTION.
- DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND. DO NOT ALLOW GROUND BENEATH FOOTINGS TO FREEZE.
- BEAR ALL FOOTINGS ON COMPACTED STRUCTURAL FILL OR NATIVE UNDISTURBED SOIL AS APPROVED BY THE GEOTECHNICAL ENGINEER. SOIL BEARING SURFACES, PREVIOUSLY ACCEPTED BY OWNER'S REPRESENTATIVE, WHICH ARE ALLOWED TO BECOME SATURATED, FROZEN OR DISTURBED SHALL BE REWORKED TO SATISFACTION OF OWNER'S REPRESENTATIVE.
- STRUCTURAL FILL AND SELECTED FILL: SOUND, DURABLE, SAND, GRAVEL, STONE, OR BLENDS OF THESE MATERIALS, FREE FROM ORGANIC, FROZEN OR OTHER DELETERIOUS MATERIALS, AND MEETING THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE	PERCENT PASSING
4"	100
No. 40	0 - 70
No. 200	0 - 5

- FINES PASSING NO. 200 SHALL BE NON-PLASTIC.
- PARTICLE SIZE ANALYSIS SHALL SHOW NO GAP GRADING.

- THE SOIL BENEATH THE STRUCTURE AND 5 FEET AROUND THE PERIMETER SHALL BE TREATED AS FOLLOWS:
 - STRIP THE AREA OF ALL VEGETATION.
 - PERFORM ALL CUT OPERATIONS.
 - THE NEXT 6 INCHES SHALL BE THOROUGHLY SCARIFIED, WITH WATER ADDED TO RAISE THE MOISTURE CONTENT TO AT LEAST 3 PERCENTAGE POINTS ABOVE OPTIMUM, AND RE-COMPACTED TO A DENSITY IN THE RANGE OF 95% TO 100% OF STANDARD PROCTOR. THE FIRST LIFT OF FILL SHALL BE PLACED ON THE COMPACTED SUBGRADE WITHIN EIGHT HOURS OF COMPLETION OF THE COMPACTION.
 - THE FILL REQUIRED TO RAISE THE BUILDING TO BENEATH THE FLOOR SLAB SHALL BE EITHER ON SITE FILL OR SELECT (STRUCTURAL) FILL. THE SELECT FILL SHALL HAVE A PLASTICITY INDEX BETWEEN 4 AND 15 AND A LIQUID LIMIT LESS THAN 40. PLACE ALL FILL (ON SITE OR SELECT) FILL IN 8-INCH LIFTS AND COMPACT TO AT LEAST 98% OF THE STANDARD PROCTOR DENSITY AT A MOISTURE CONTENT WITHIN -2 AND +2 PERCENTAGE POINTS OF OPTIMUM.
 - ALL SLABS-ON-GRADE SHALL BEAR ON A BASE COURSE OF CLEAN, COMPACTED CRUSHED STONE A MINIMUM OF 6" THICK. THE CRUSHED STONE SHALL BE #57 CRUSHED STONE.
 - EACH LIFT SHALL BE TESTED FOR MOISTURE CONTENT AND IN PLACE DENSITY AT A RATE OF ONE TEST PER 2,000 SQUARE FEET (MINIMUM OF ONE PER LIFT).

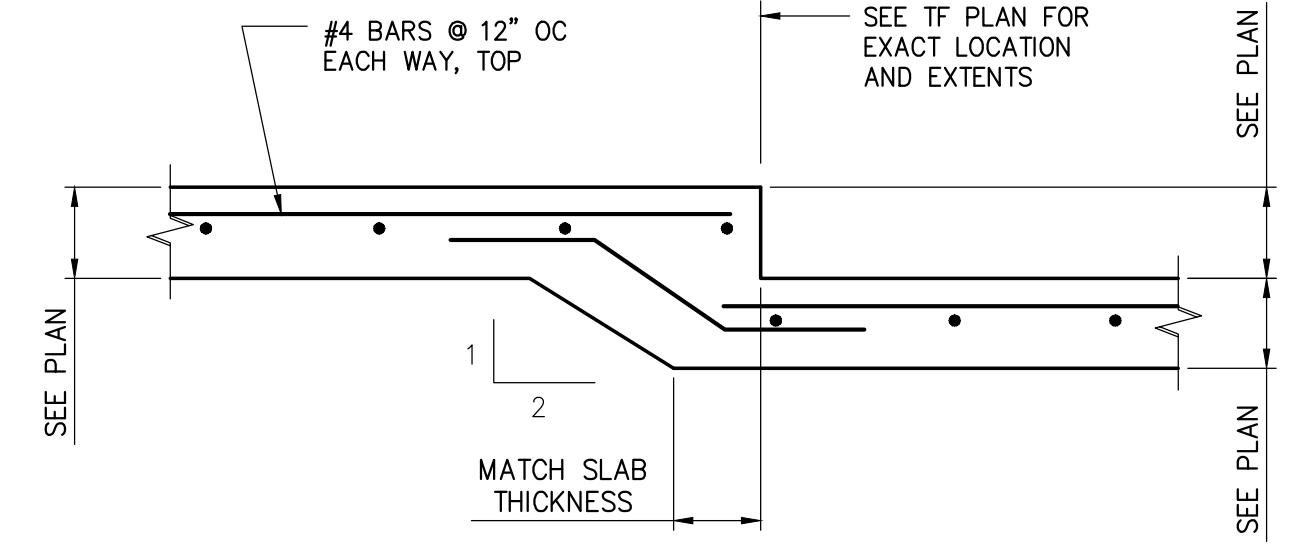
CAST-IN-PLACE CONCRETE NOTES:

- CONCRETE FOR THE CAST IN PLACE FLOOR SLAB SHALL HAVE A 28 DAY DESIGN COMPRESSIVE STRENGTH OF 3,000 PSI. HIGH RANGE WATER REDUCING AGENT AND A 5'-6" SLUMP. 20% OF CLASS F FLYASH MAY BE USED WITH THE APPROVAL OF THE ENGINEER AND THE CONCRETE FINISHER/CONTRACTOR BEFORE BIDDING.
- CONCRETE FOR LOW STRENGTH FLOWABLE FILL SHALL HAVE A 28 DAY DESIGN COMPRESSIVE STRENGTH OF 150 PSI.
- CONCRETE SHALL HAVE MAXIMUM WATER TO CEMENT RATIOS AS FOLLOWS:
 - 150 PSI FLOWABLE FILL - 1.0
 - 3,000 PSI CONCRETE - 0.52
- PLACEMENT OF CONCRETE SHALL BE IN CONFORMANCE WITH ACI 117-06 "SPECIFICATION FOR TOLERANCE FOR CONCRETE AND MATERIALS AND COMMENTARY".
- IF THE AIR TEMPERATURE IS GREATER THAN 90 DEGREES WITHIN 24 HOURS AFTER PLACEMENT, HOT WEATHER CONCRETE PROCEDURES SHALL BE USED. THE CONTRACTOR SHALL SUBMIT A PROCEDURE TO THE ENGINEER FOR APPROVAL. THESE PROCEDURES MAY INCLUDE THE FOLLOWING:
 - PLACING THE CONCRETE IN THE EARLY MORNING HOURS
 - THE USE OF EVAPORATION REDUCER (SEE BELOW)
 - THE USE OF MISTING AS A CURING METHOD
 - THE USE OF WET BLANKETS AS A CURING METHOD
 - THE USE OF A RETARDING ADMIXTURE (NOT PREFERABLE)
- FIVE 4"x8" CONCRETE CYLINDERS SHALL BE MADE FOR EVERY 50 CUBIC YARDS OR EACH DAYS POUR, ONE TO BE TESTED AT 7 DAYS, THREE TO BE TESTED AT 28 DAYS, AND ONE TO HOLD. THE CONCRETE SLUMP, TEMPERATURE, AND AIR CONTENT SHALL BE MEASURED EVERY TIME A SET OF FIVE CYLINDERS IS MADE.
- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AMERICAN CONCRETE INSTITUTE STANDARDS "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318) AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301). SPLICES IN REINFORCEMENT SHALL MEET CLASS B TENSION LAP REQUIREMENTS UNLESS NOTED OTHERWISE.
- COVER FOR ALL REINFORCEMENT SHALL MEET THE COVERAGE REQUIREMENTS AS SHOWN IN THE LATEST ACI 318, OR AS SHOWN ON THE DETAILS. COVER DIMENSIONS SHOWN ON THE DETAILS CONTROL OVER ACI.
- ANY CONCRETE TO BE PLACED FURTHER THAN 16 FEET FROM THE END OF A CONCRETE TRUCK SHALL BE PUMPED WITH A COMMERCIAL CONCRETE PUMPING TRUCK OR OTHER PLACEMENT METHOD APPROVED BY THE ENGINEER. THE CONCRETE TRUCK SHALL NOT BE ALLOWED TO DRIVE OVER THE SUBGRADE OR THE SLAB REINFORCEMENT.
- REINFORCING STEEL SHALL BE DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-815 GRADE 60. #4 REINFORCEMENT BARS AND SMALLER SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED IN THE FIELD. REINFORCEMENT GREATER THAN A #4 BAR MAY NOT BE BENT IN THE FIELD WITHOUT APPROVAL OF THE ENGINEER.
- PROVIDE 3/4" x 3/4" CHAMFER AT ALL EXPOSED CORNERS UNLESS NOTED OTHERWISE.
- NO HOLES OR OPENINGS ARE PERMITTED THROUGH CONCRETE SLABS OR WALLS EXCEPT AS FOLLOWS:
 - WHERE SHOWN AND AS DETAILED ON DRAWINGS.
 - MISCELLANEOUS HOLES THROUGH SLABS OR WALLS WHICH DO NOT DISPLACE MORE THAN ONE BAR. THESE DO NOT REQUIRE ADDITIONAL REINFORCEMENT.
- LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. LOCATE WALL CONSTRUCTION JOINTS AT MASONRY CONTROL JOINTS WHERE POSSIBLE. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT. DETAIL JOINT AND SHOW ON SHOP DRAWINGS.
- CAST CONCRETE ON SLOPED SURFACES BEGINNING AT LOWEST ELEVATION AND CONTINUING MONOLITHICALLY TOWARD HIGHER ELEVATIONS UNTIL INTENDED POUR IS COMPLETED.

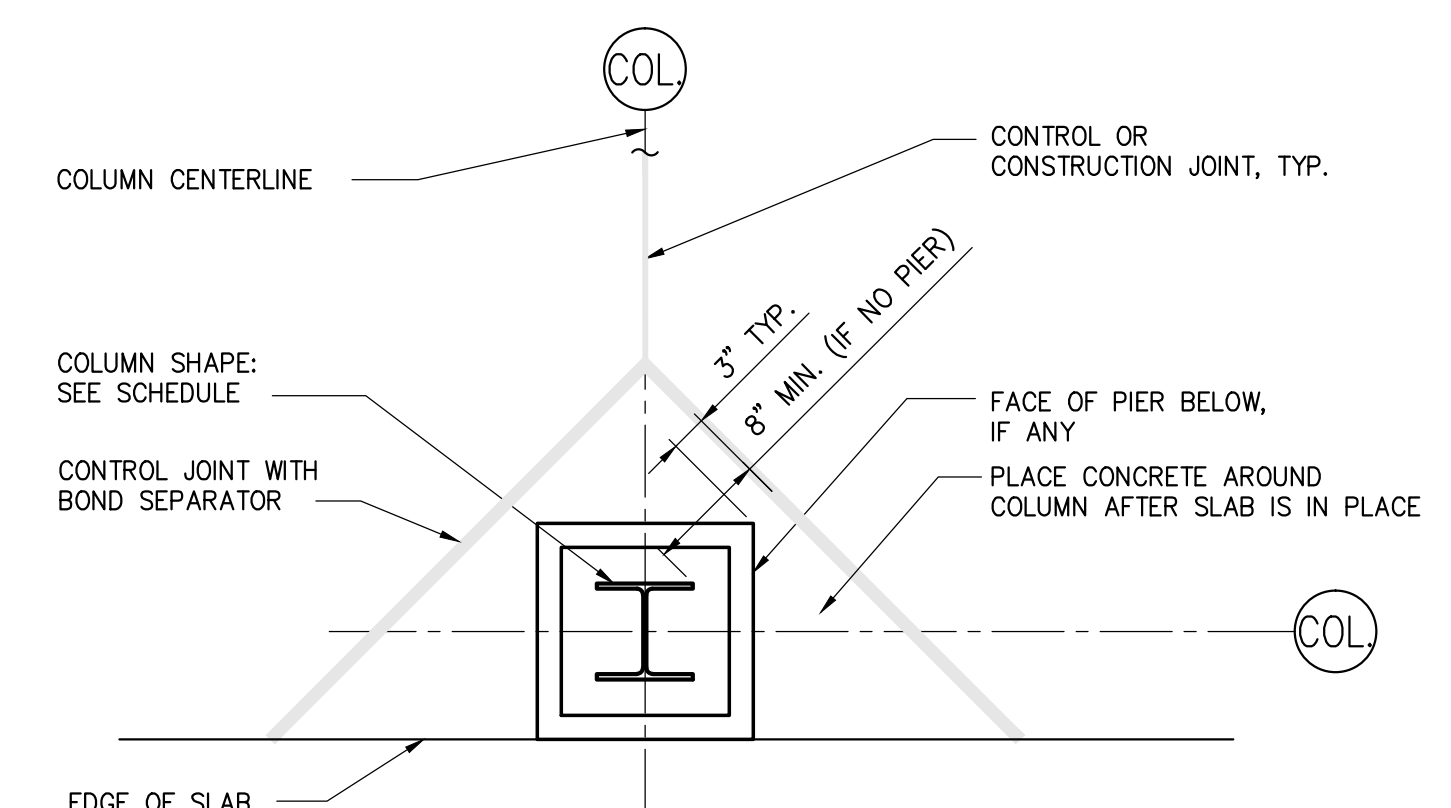
- REINFORCING BARS, BAR SUPPORTS, AND SPACERS SHALL BE DETAILED AND PROVIDED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL. USE WIRE-BAR SUPPORTS COMPLYING WITH CRSI SPECIFICATIONS. SUPPORTS SHALL NOT BE PLACED FURTHER THAN 4 FEET APART. DAYTON SUPERIOR PRODUCTS (800-745-3700) OR EQUAL UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS:
 - AT SLABS-ON-GRADE: (SLAB THICKNESS MINUS 1 1/2 INCHES) HIGH. USE SUPPORTS WITH SAND PLATES OR HORIZONTAL RUNNERS WHERE BASE MATERIAL WILL NOT SUPPORT CHAIR LEGS. CONCRETE BLOCK OR CLAY MASONRY MAY NOT BE USED.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DETAILS OF DEPRESSED SLABS AND FLOOR DRAIN LOCATIONS.
- USE ONE OF THE FOLLOWING SEALERS ON ALL INTERIOR EXPOSED CONCRETE SURFACES WHICH DO NOT RECEIVE A STAIN, PAINT OR OTHER TYPE OF COATING:
 - LAPIDOLITH BY SONNEBORN
 - SUPER REZ-SEAL BY EUCUID
- EVAPORATION REDUCERS SHALL BE USED AFTER EACH FINISHING OPERATION ON THE CAST IN PLACE CONCRETE FLOOR SLAB UNLESS PRIOR APPROVAL FROM THE ENGINEER HAS BEEN OBTAINED TO NOT USE. SEE SPECIFICATIONS FOR PRODUCT REQUIREMENTS.
- SAWCUTS IN CONCRETE SLABS ON GRADE SHALL BE MADE AS SOON AS THE CONCRETE IS OF SUFFICIENT STRENGTH TO SAW WITHOUT RAVELING THE AGGREGATE. ANY TIME LAPSE GREATER THAN 8 HOURS AFTER PLACING THE CONCRETE SHALL BE PERMITTED ONLY IF APPROVED BY THE ENGINEER. FILL ALL INTERIOR JOINTS WITH MM-80 JOINT COMPOUND OR APPROVED EQUAL.
- ADHESIVE ANCHORS WITH REBAR OR THREADED RODS SHALL BE AS NOTED BELOW. INSTALL ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, WHICH INCLUDES CLEANING THE HOLE WITH AIR AND USING A MANUFACTURER APPROVED DISPENSING TOOL WITH MIXING NOZZLE.
 - INTO CONCRETE: HILTI HIT 150 MAX, SIMPSON SET HIGH STRENGTH EPOXY-TIE ANCHORING ADHESIVE OR APPROVED EQUAL.
- NO PIPING OR CONDUITS SHALL BE INSTALLED IN ANY CONCRETE WITHOUT THE APPROVAL OF THE ENGINEER.
- ALL ELECTRICAL CONDUITS, PIPE SLEEVES, PIPING, WATERSTOPS, INSERTS, GROUNDS, AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT. FOR EMBEDDED ITEMS AND REQUIRED DETAILS, SEE ARCHITECTURAL DRAWINGS. VERIFY SIZE AND LOCATION OF ALL OPENINGS.
- ALL PIPING AND DUCT PENETRATIONS THROUGH NEW STRUCTURAL SLABS ARE TO BE SLEEVED OR CHASED. NO CORING OF SLAB IS PERMITTED. ALL PIPING THROUGH EXISTING STRUCTURAL SLABS MAY BE CORED IF APPROVED BY ENGINEER.
- CONCRETE UNDERLAYMENT TO RECEIVE 3/8" FEA STONE FOR THICKNESSES GREATER THAN 2", OR AS RECOMMENDED BY THE MANUFACTURER.

STEEL NOTES:

- STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION.
- WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY.
- ANY CONNECTIONS WITHOUT WELD SYMBOLS SHALL BE AT A MINIMUM WELDED ALL AROUND WITH THE MINIMUM FILLET OR BUTT WELD SIZE.
- STRUCTURAL STEEL C SHAPES SHALL CONFORM TO ASTM A992 (50 KSI).
- DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- CONNECTIONS:
 - ALL BOLTED CONNECTIONS ARE TO BE 3/4" MINIMUM DIAMETER A325 TYPE IN OR SC BOLTS IN STANDARD HOLES UNLESS NOTED OTHERWISE OR AS DETERMINED BY THE CONNECTION DESIGNER OR NOTED ON THE PLANS. DESIGN USING STANDARD HOLES UNLESS OTHERWISE NOTED OR REQUIRED FOR ERECTION.



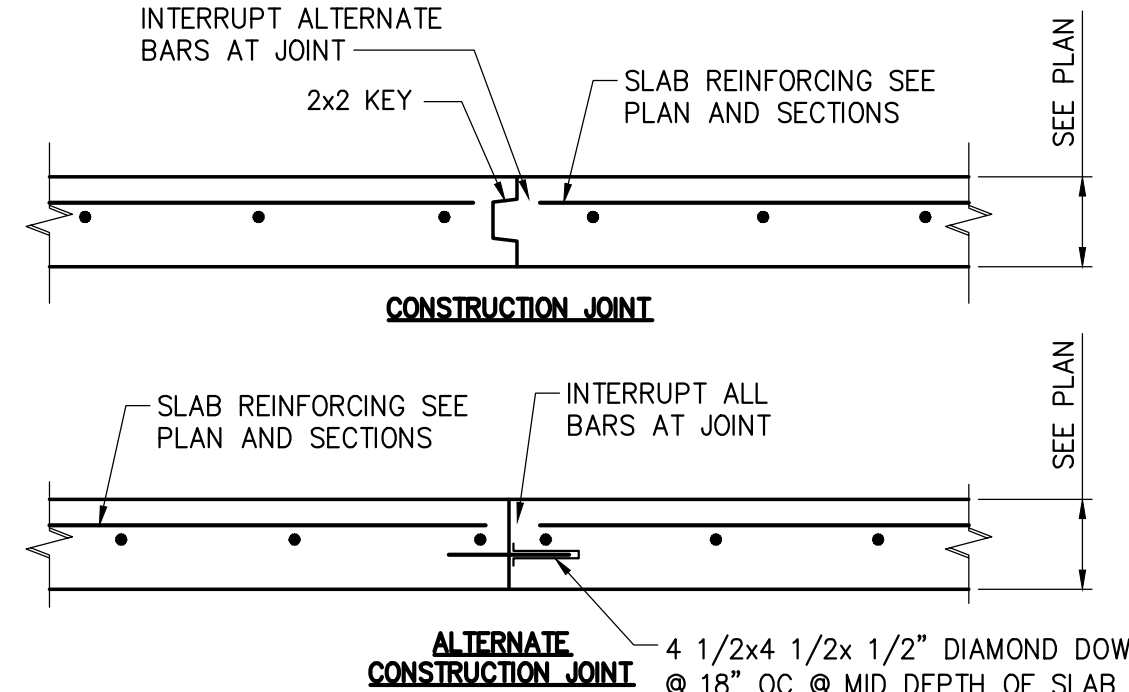
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NOT TO SCALE



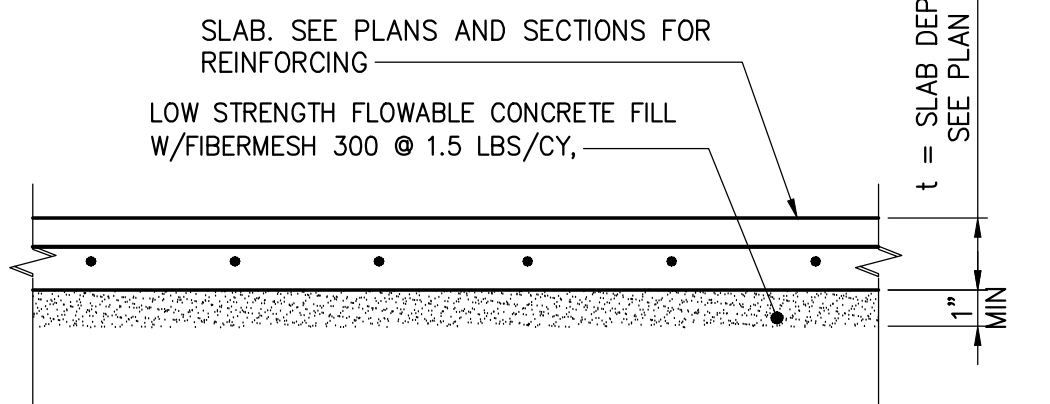
TYP. COLUMN ISOLATION JOINT AT WALL DETAIL
NOT TO SCALE

REINFORCING LAP LENGTH			
BAR SIZE	LAP CLASS	VERT.	HORIZ.
#3	B	18	24
#4	B	25	32
#5	B	31	40
#6	B	37	48
#7	B	54	70
#8	B	62	80
#9	B	69	90
#10	B	77	100

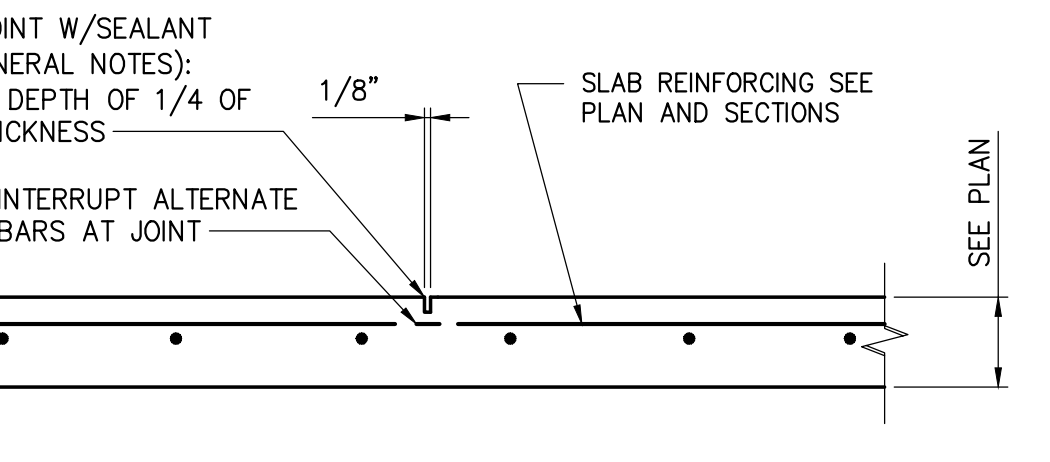
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NOT TO SCALE



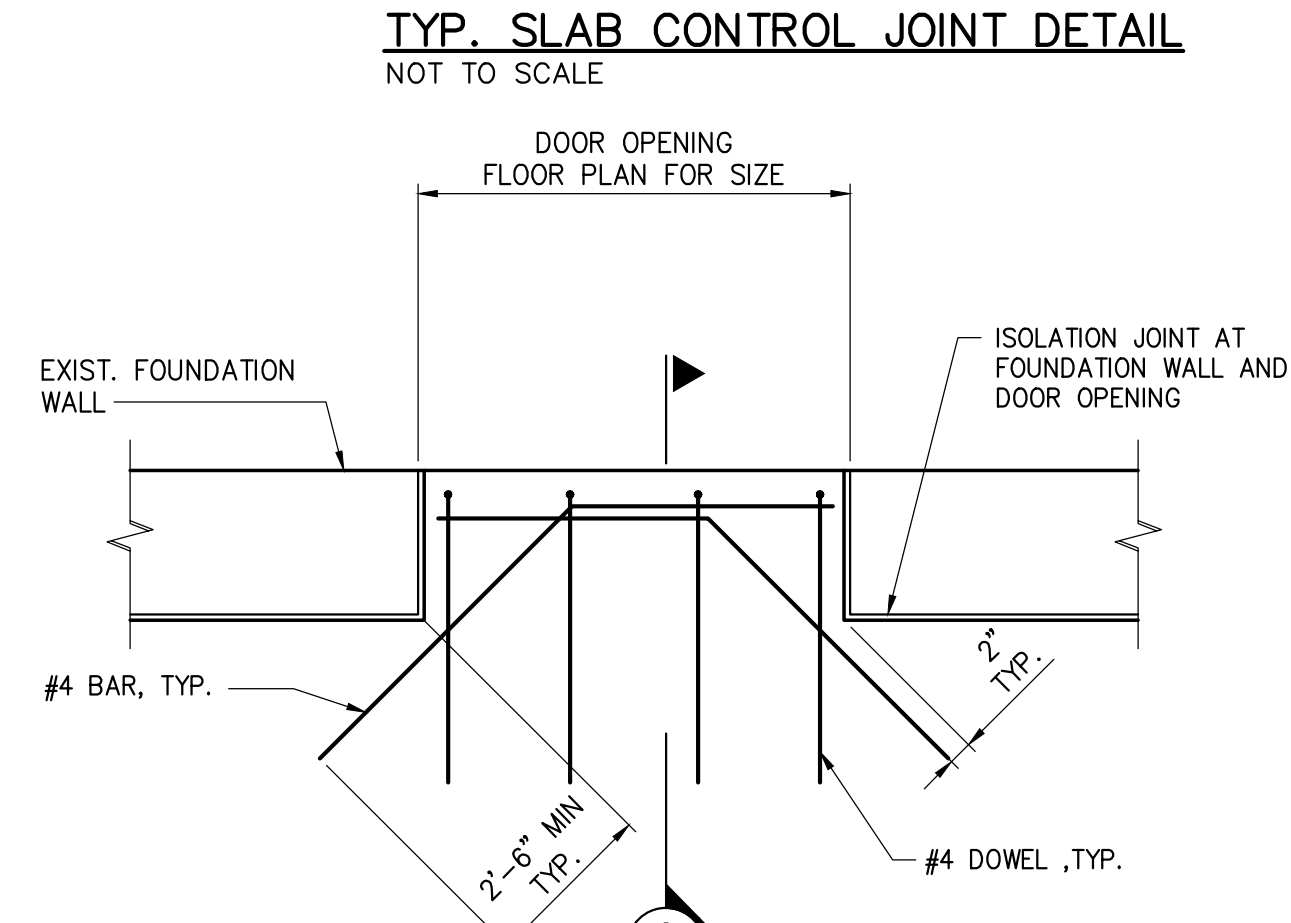
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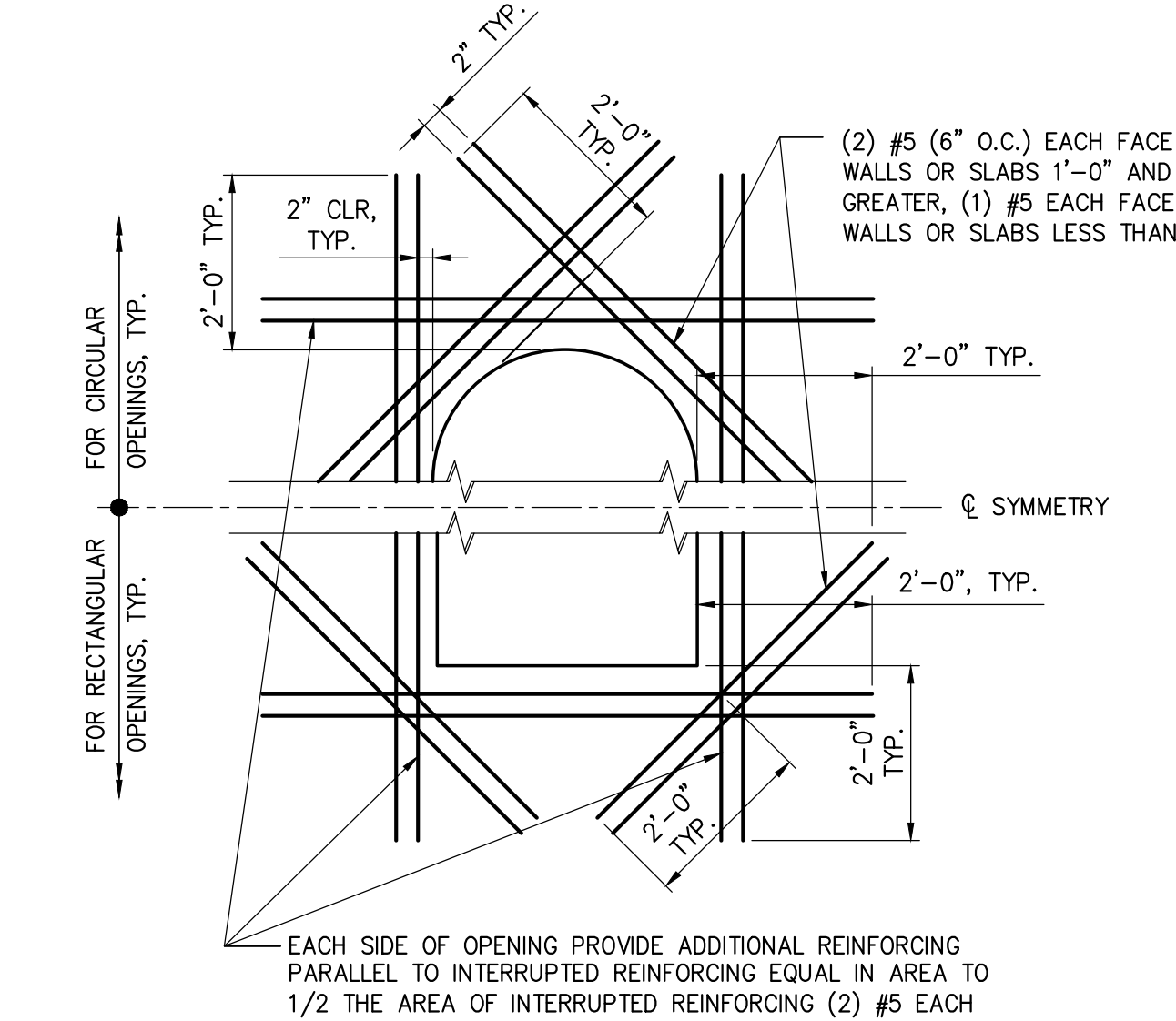
TYP. SLAB DETAIL
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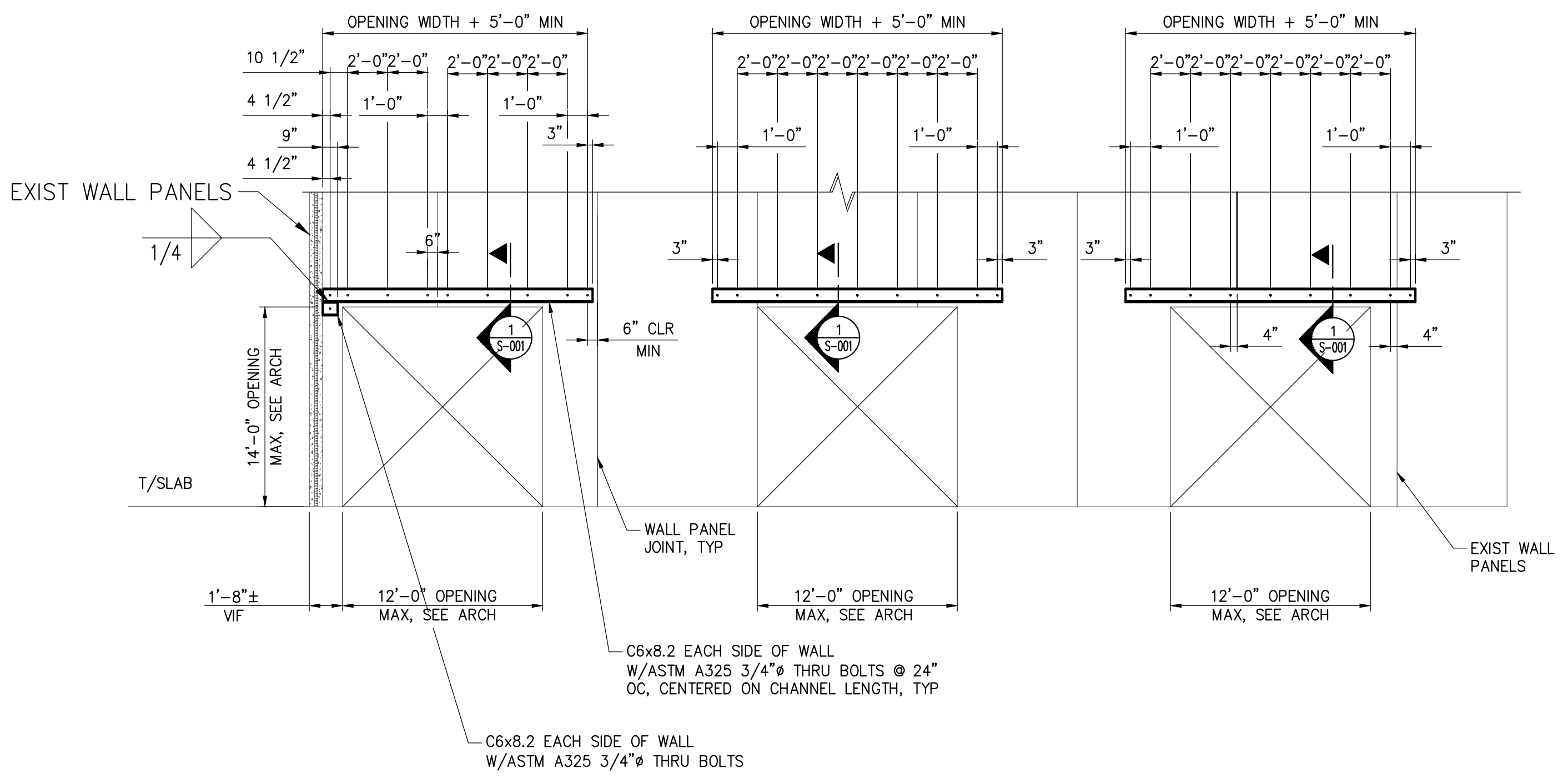
TYP. SLAB CONTROL JOINT DETAIL
NOT TO SCALE



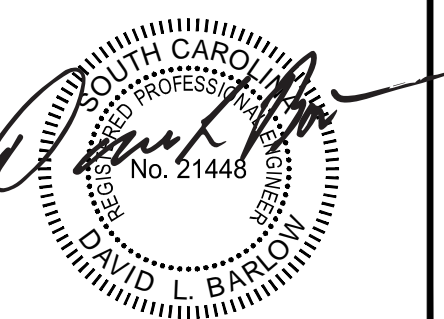
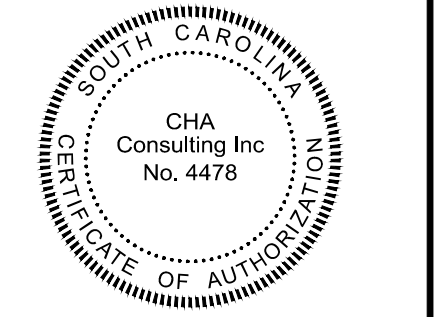
TYP. SLAB REINFORCING AT DOOR OPENING
NOT TO SCALE



TYP. REINFORCING AT RECTANGULAR AND CIRCULAR OPENINGS IN SLABS
NOT TO SCALE



NEW OPENINGS IN EXISTING WALL PANELS
NOT TO SCALE



UNIVERSITY OF SOUTH CAROLINA
ATHLETIC VILLAGE IMPROVEMENTS - FIELD HOUSE CONVERSION
116 MARION STREET
COLUMBIA, S.C. 29205
STATE PROJECT NO. H27-6105-MJ-C

No.	Submitted / Revision	App'd.	By	Date

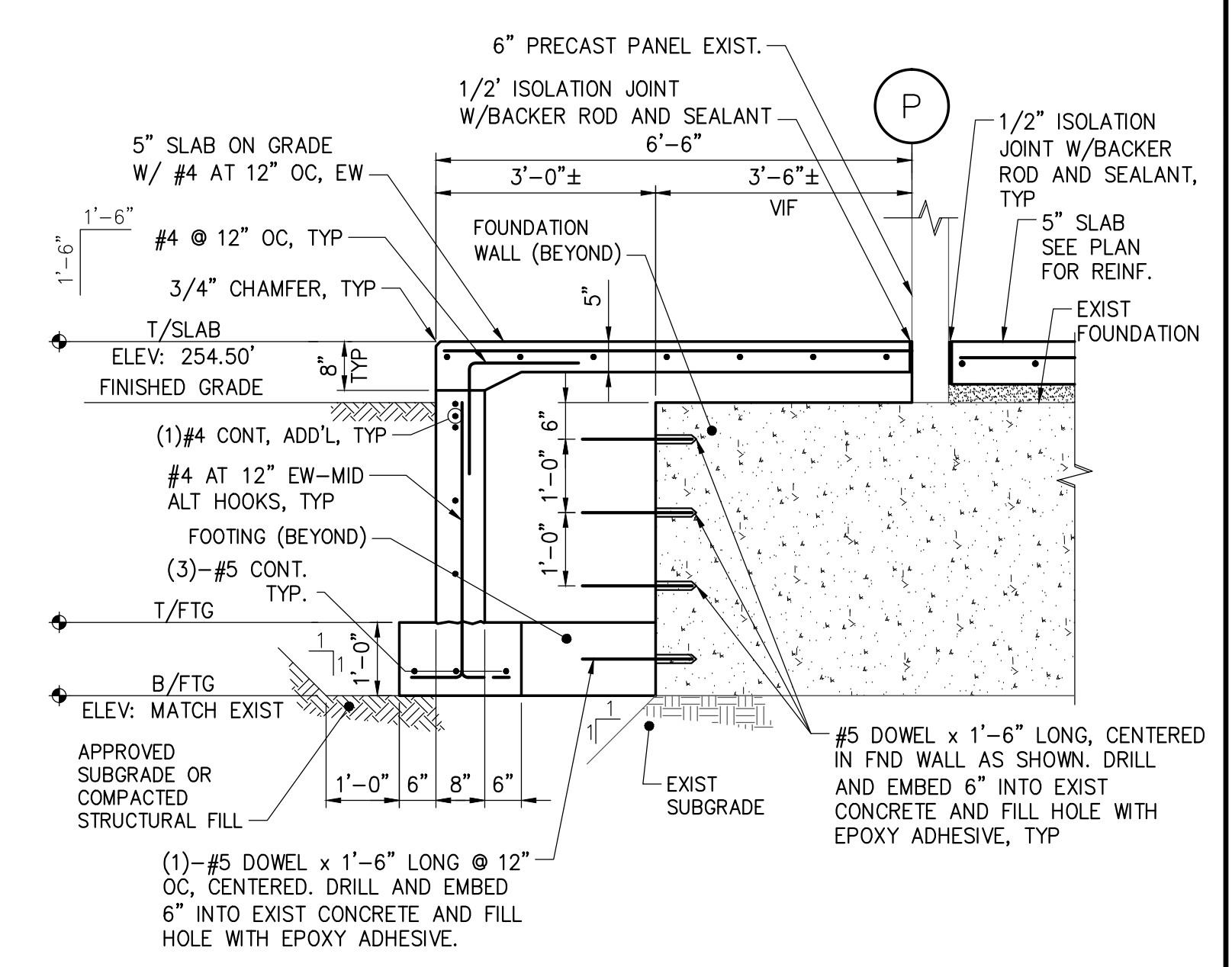
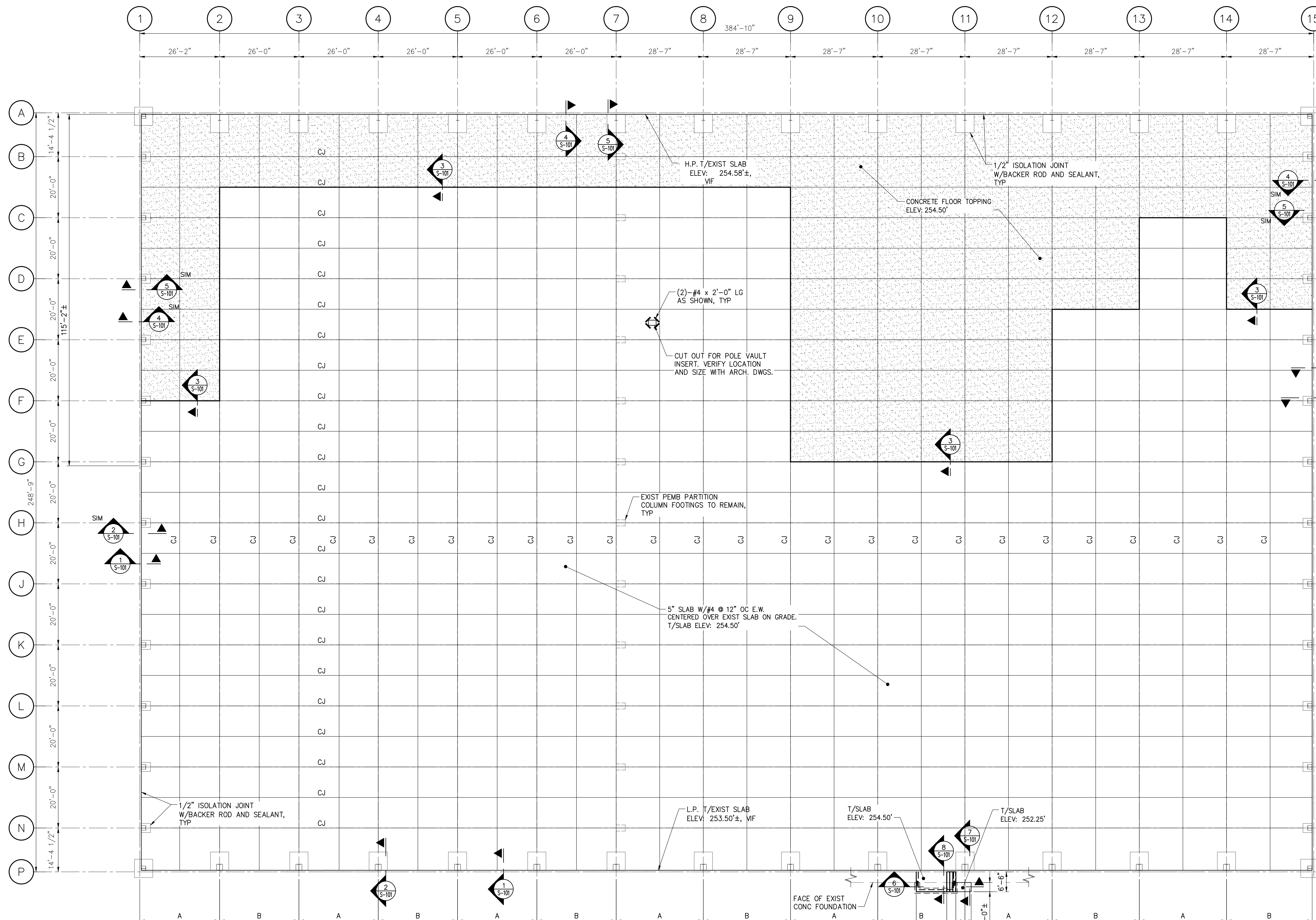
GENERAL NOTES, DESIGN DATA & TYPICAL DETAILS

Designed By: LDCC	Drawn By: CEC	Checked By: PD
Issue Date: 08-01-2016	Project No: 27462	Scale: AS SHOWN

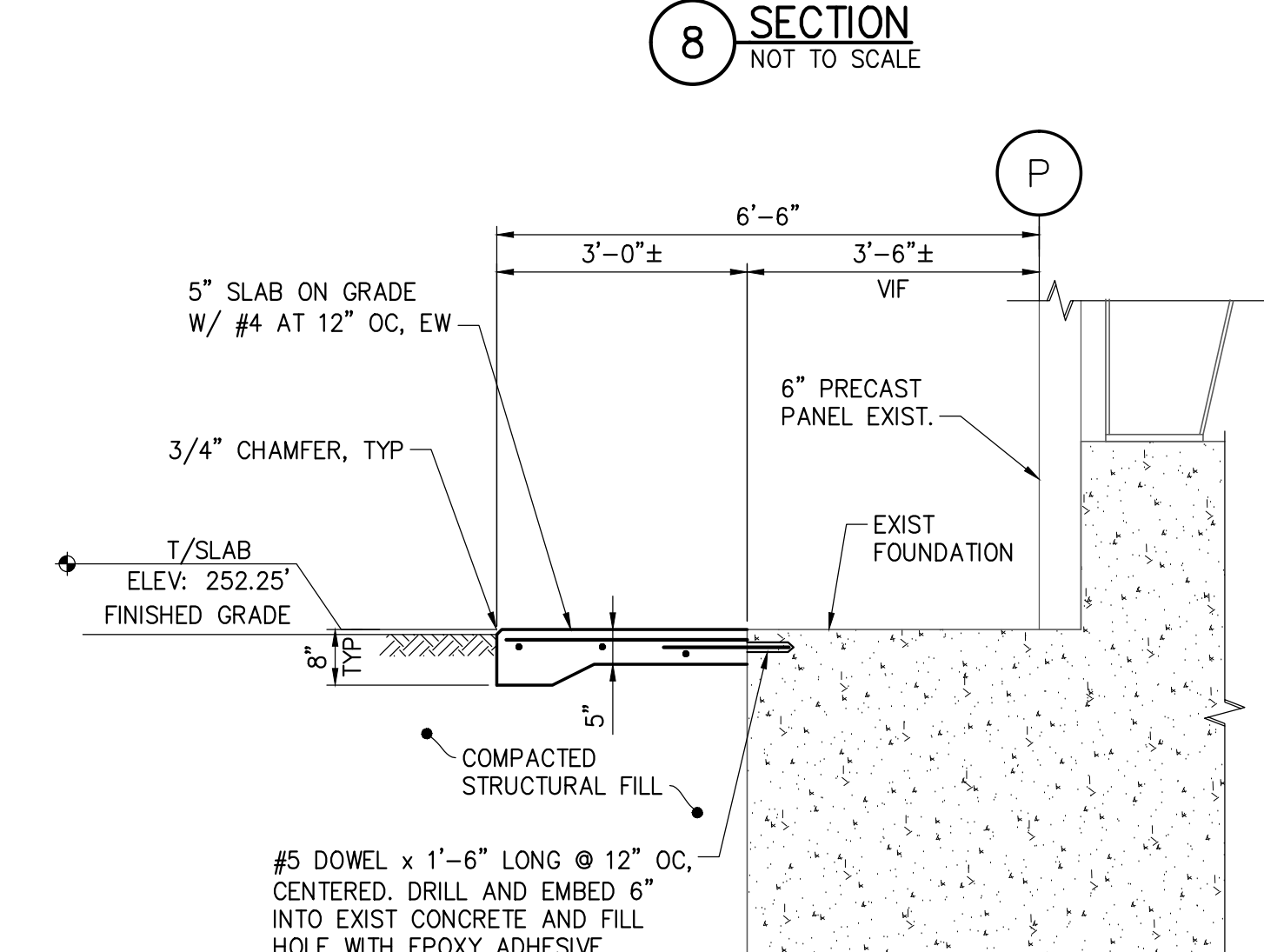
Drawing No.:
S-001

PROPOSED CONSTRUCTION SEQUENCE:

1. REMOVE ALL EXISTING FINISHES (CARPET, ASTROTURF, PAINT, ETC.) EXPOSING EXISTING CONCRETE SLAB ON GRADE.
2. CLEAN AND PREPARE EXISTING CONCRETE SLAB SURFACE IN ACCORDANCE WITH CONCRETE SPECIFICATIONS AND MONDO FLOORING RECOMMENDATIONS.
3. CONTRACTOR SHALL PROVIDE PHOTOS AND MAP OF CONDITION OF EXISTING CONCRETE SLAB PRIOR TO PROCEEDING WITH ANY CONCRETE OR TOPPING PLACEMENT OR REBAR FABRICATION. DETAILS SHOWN SHALL INCLUDE:
 - A. CONTROL, CONSTRUCTION, EXPANSION, AND ISOLATION JOINTS LOCATIONS AND SPACING.
 - B. AREAS OF SETTLEMENT.
 - C. CRACKING.
4. PLACE FLOWABLE FILL AND CURE FOR A MINIMUM OF 14-DAYS BEFORE PLACING CONCRETE SLAB OR CONCRETE TOPPING.
5. PLACE 5" REINFORCED SLAB. SLAB TO BE PLACED IN ALTERNATING STRIPS AS SHOWN ON PLAN WITH AN 'A' AND 'B' DESIGNATION. STRIPS WITH A 'B' DESIGNATION TO BE PLACED SEPARATELY AFTER A 7-DAY MINIMUM CURE OF 'A' STRIPS. USE FORMWORK AS NECESSARY.
6. FOLLOWING A MINIMUM OF A 14-DAY CONCRETE SLAB CURE, PLACE THE CONCRETE TOPPING OVER TOP OF FLOWABLE FILL AND EXISTING SLAB SUB-BASE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
7. PRIOR TO FABRICATING REINFORCING, PLACING FLOWABLE FILL OR PLACING CONCRETE, CONTRACTOR SHALL SUBMIT A FINAL CONSTRUCTION SEQUENCING PLAN TO ENGINEER FOR REVIEW AND APPROVAL. A PRE-PLACEMENT MEETING SHALL BE HELD ON SITE ENSURING QUALITY OF CONCRETE MATERIALS AND CONSTRUCTION SEQUENCING. REQUIRE REPRESENTATIVES OF EACH ENTITY DIRECTLY CONCERNED WITH CAST-IN-PLACE CONCRETE TO ATTEND, INCLUDING THE FOLLOWING:
 - A. CONTRACTOR'S SUPERINTENDENT.
 - B. INDEPENDENT TESTING AGENCY RESPONSIBLE FOR CONCRETE DESIGN MIXTURES.
 - C. READY-MIX CONCRETE MANUFACTURER.
 - D. CONCRETE SUBCONTRACTOR.
 - E. SPECIAL CONCRETE FINISH SUBCONTRACTOR.
 - F. ENGINEER.



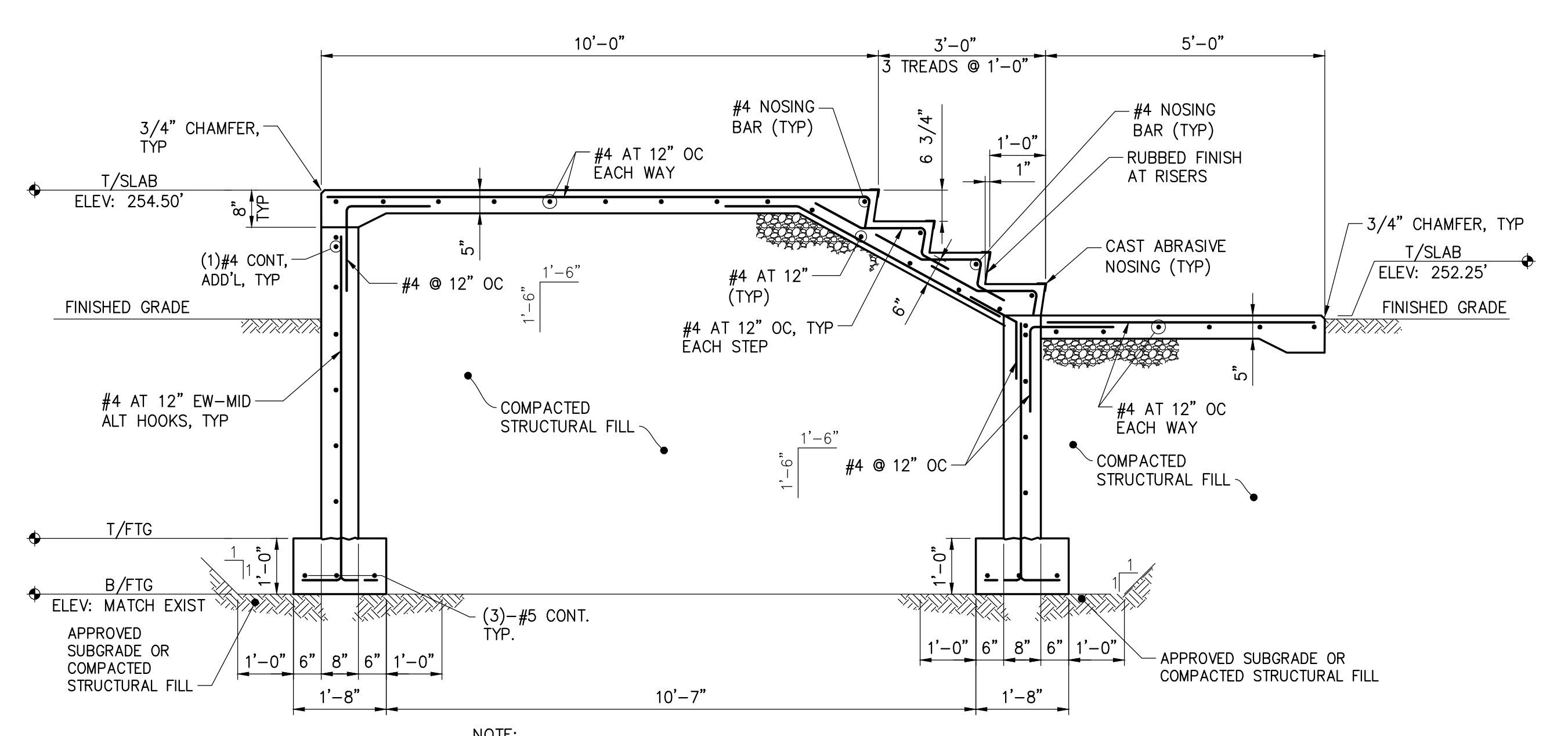
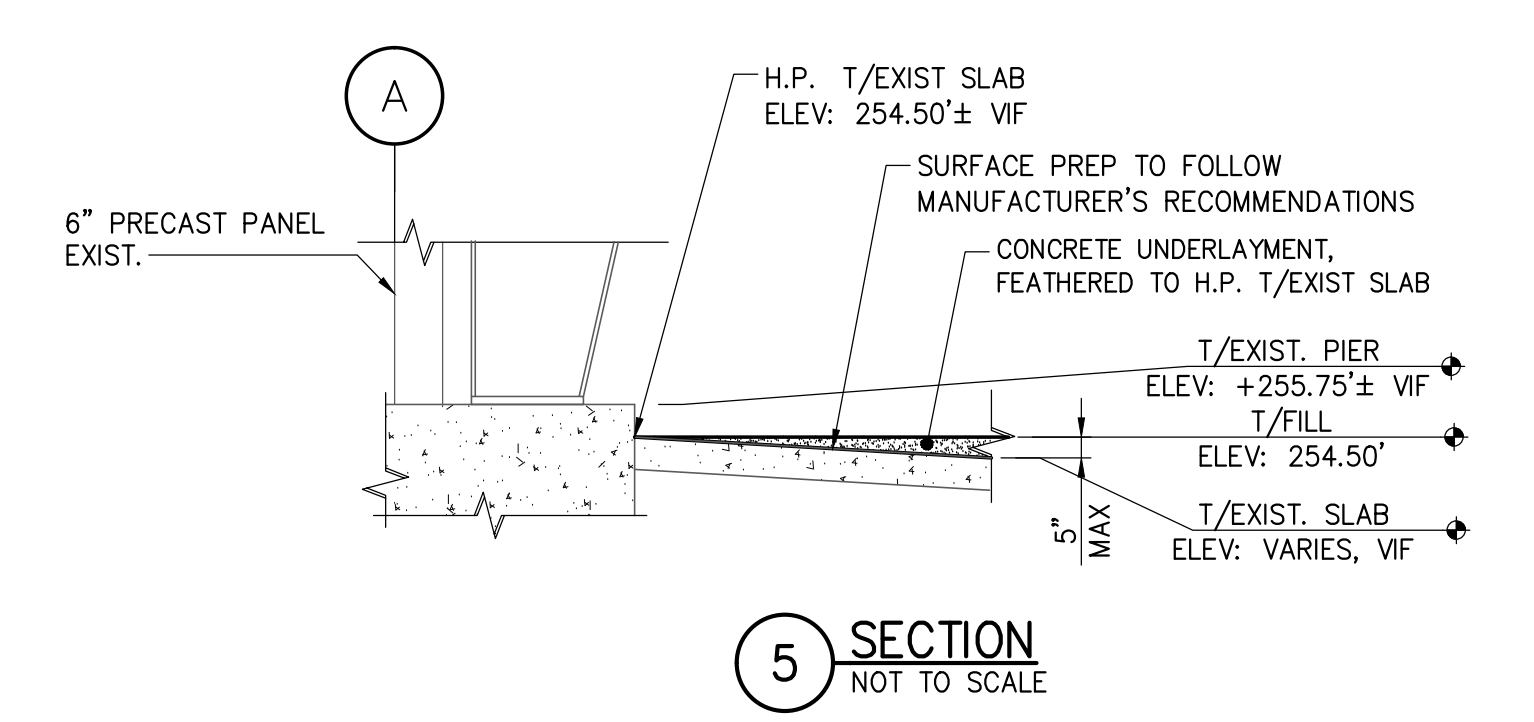
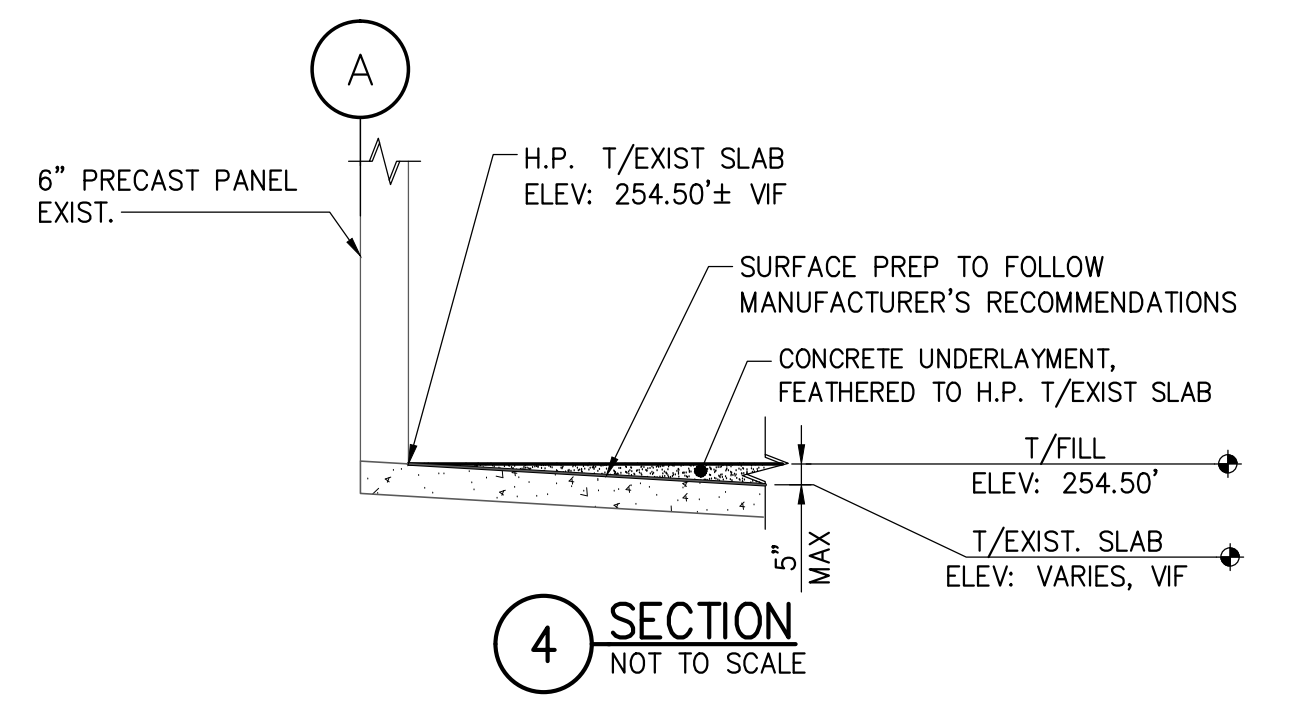
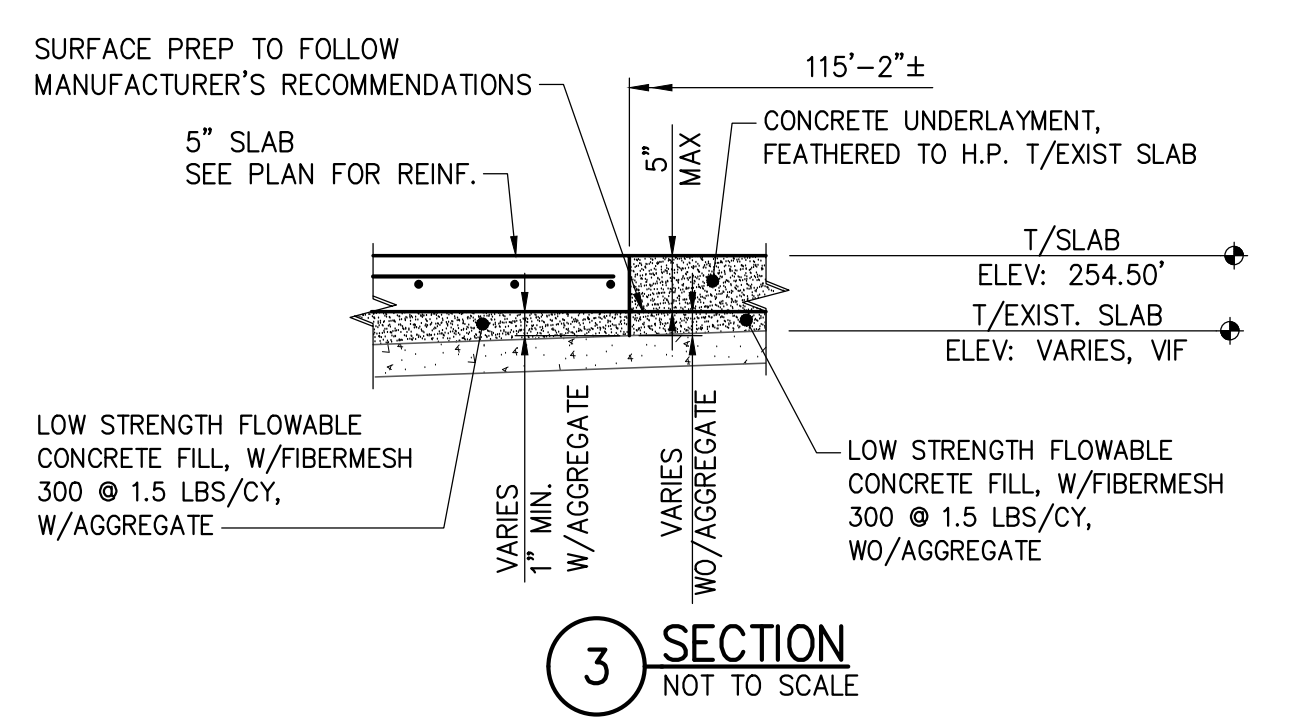
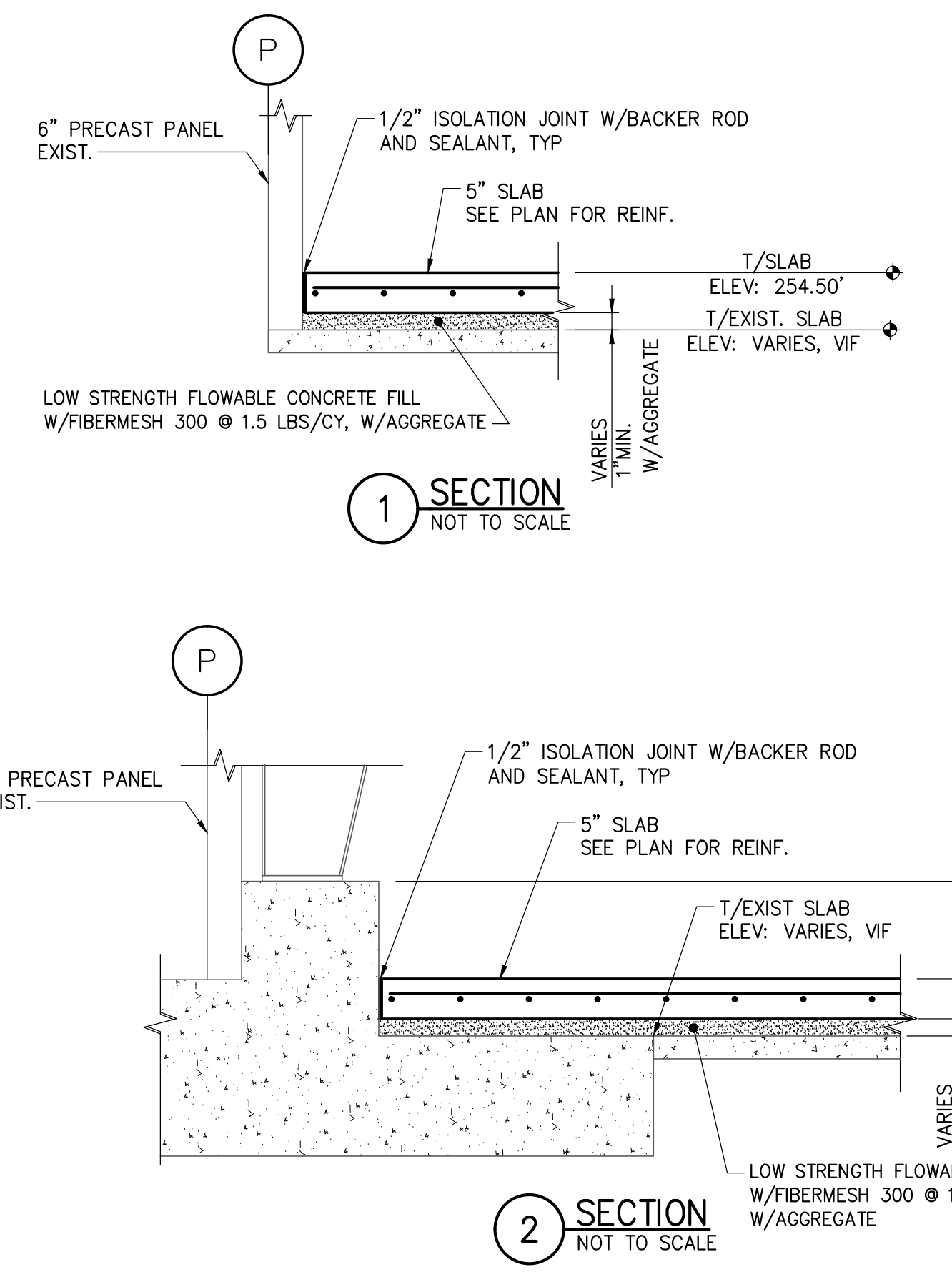
NOTE:
1. PRIOR TO ANY FABRICATION OR CONSTRUCTION, CONTRACTOR SHALL CONFIRM THE EXISTING CONSTRUCTION IS CORRECTLY SHOWN ON THESE DRAWINGS. GC SHALL CONTACT THE ENGINEER IF THE CONSTRUCTION DOES NOT MATCH WHAT IS SHOWN



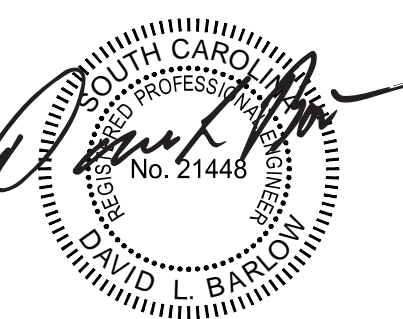
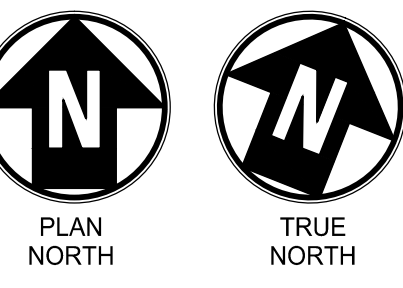
NOTE:
1. PRIOR TO ANY FABRICATION OR CONSTRUCTION, CONTRACTOR SHALL CONFIRM THE EXISTING CONSTRUCTION IS CORRECTLY SHOWN ON THESE DRAWINGS. GC SHALL CONTACT THE ENGINEER IF THE CONSTRUCTION DOES NOT MATCH WHAT IS SHOWN

- NOTE:**
1. CONTROL JOINTS AT COLUMN GRID LINES AND MID POINT BETWEEN. NOT TO EXCEED 15'-0" SPACING.
 2. CJ - DENOTES CONTROL/CONSTRUCTION JOINT
 3. ALL DIMENSIONS AND ELEVATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR. CONTRACTOR SHALL NOTIFY ENGINEER OF DISCREPANCIES.
 4. REFERENCE ARCHITECTURAL DRAWINGS FOR DOOR LOCATIONS AND QUANTITIES.

FLOOR PLAN
SCALE: 1/16" = 1'-0"



NOTE:
1. PROVIDE NON-SLIP FINISH FOR EXTERIOR STAIRS



IF A REVISION OF THIS DRAWING IS REQUIRED, THE USER SHALL NOTIFY THE DESIGNER OF A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF SOUTH CAROLINA. ANY CHANGES TO THIS DRAWING SHALL BE MADE BY THE DESIGNER OR AN AUTHORIZED REPRESENTATIVE OF THE DESIGNER. THE USER SHALL VERIFY THE ACCURACY OF THE INFORMATION PROVIDED BY THE USER. THE USER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED BY THE USER.



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No.	Submittal / Revision	App'd	By	Date

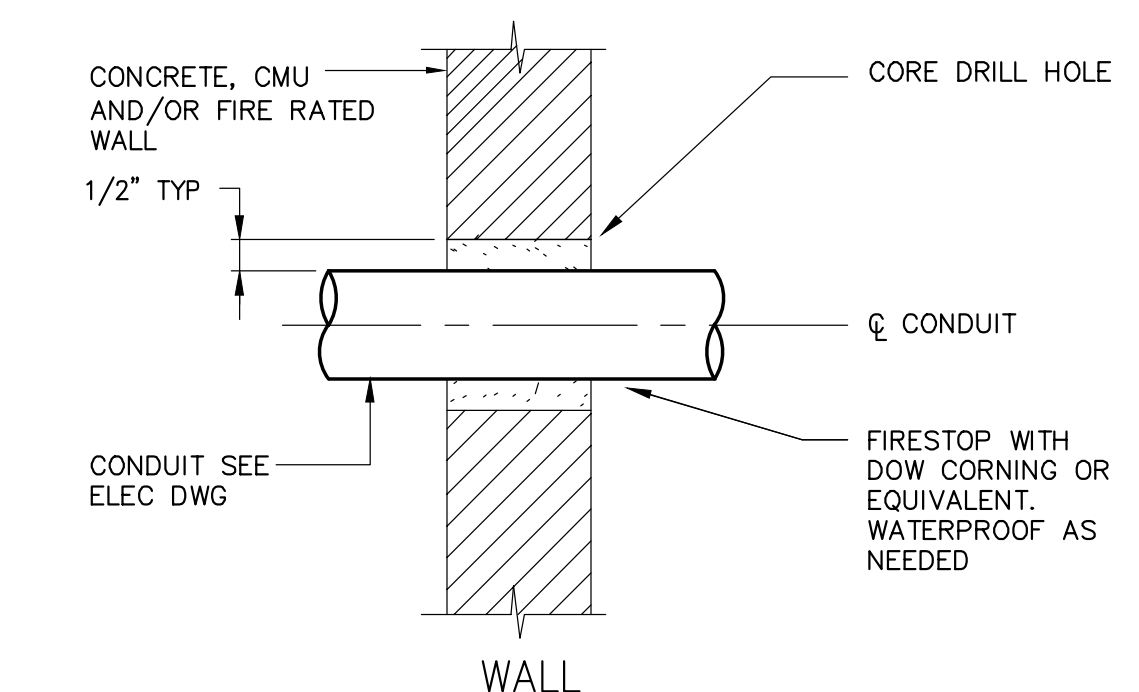
ISSUED FOR BID		DATE	JRP	08/01/16

FLOOR PLAN

Designed By:	Drawn By:	Checked By:
CEC	LDCO	CJ
Issue Date:	Project No:	Scale:
08-01-2016	27482	AS SHOWN

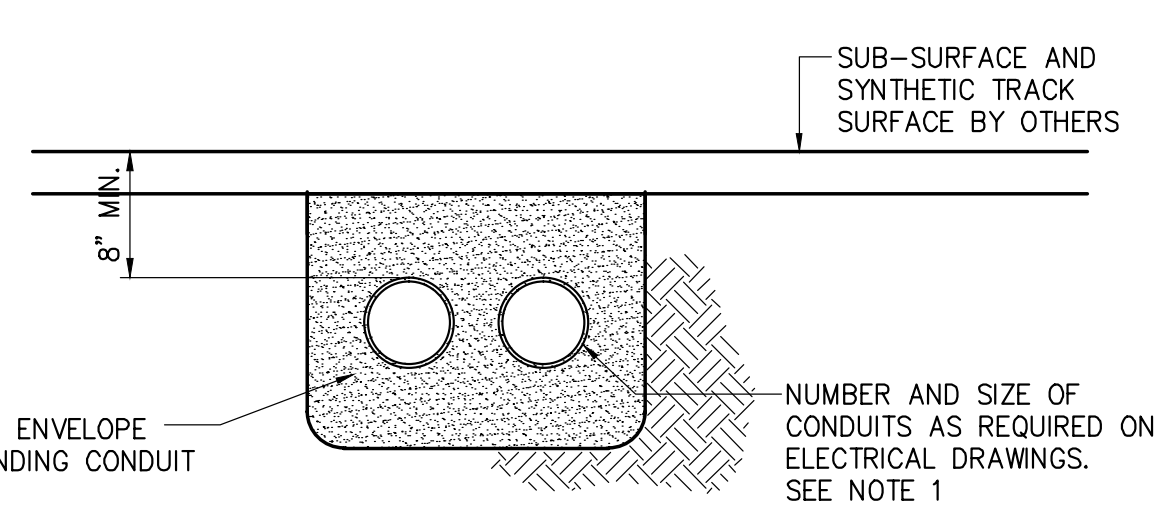
Drawing No.: **S-101**

LOCATION: INDOOR TRACK WALL SURFACE		PANELBOARD ID: PA			VOLTS, PHASE, WIRE: 208/120V 3Ø 4W				
MOUNTING: PROVIDE 100A/3P CB IN PANEL MDP					MAINS: 125 AMP w/ 100A/3P MCR				
SOURCE:					SHORT CIRCUIT RATING: MINIMUM 42 KAIC				
CKT	LOAD DESCRIPTION	CB AMPS/POLE	CONN LOAD KVA	CONN LOAD KVA	CONN LOAD KVA	CONN LOAD KVA	CB AMPS/POLE	LOAD DESCRIPTION	CKT
1	OUTLET AT PANEL PA	20/1	0.2				20/1	(8.5 AMPS) OUTLET IN CP5 HAND HOLE	2
3	OUTLET ON WALL AT CP1 HAND HOLE (8.5 AMPS)	20/1		1.0			20/1	(8.0 AMPS) OUTLET IN TP1 HAND HOLE	4
5	OUTLET ON WALL AT CP2 HAND HOLE (180 VA)	20/1			0.2		20/1	(8.0 AMPS) OUTLET IN TP2 HAND HOLE	6
7	OUTLET IN SP HAND HOLE (10.0 AMPS)	20/1	1.2				15/1	(8.0 AMPS) OUTLET IN TP3 HAND HOLE	8
9	OUTLET IN SP HAND HOLE (10.1 AMPS)	20/1		1.2			20/1	(10.9 AMPS) OUTLET IN TP3 HAND HOLE	10
11	OUTLET IN CP4 HAND HOLE (8.0 AMPS)	20/1			1.0		20/1	(4.8 AMPS) OUTLET IN TP4 HAND HOLE	12
13	OUTLET IN CP4 HAND HOLE (9.0 AMPS)	20/1	1.1				0.2	(180 VA) OUTLET IN CP6 HAND HOLE	14
15	OUTLET IN CP3 HAND HOLE (4.5 AMPS)	15/1		0.5			0.2	(180 VA) OUTLET IN DP HAND HOLE	16
17	OUTLET IN CP3 HAND HOLE (10.0 AMPS SCOREBOARD)	20/1			1.2		15/1	S P A R E	18
19	OUTLET IN CP3 HAND HOLE (10.0 AMPS SCOREBOARD)	20/1	1.2				15/1	S P A R E	20
21	FUTURE LARGE SCOREBOARD AT CP3 (4638 WATTS)	30/2		2.4			20/1	S P A R E	22
23	30 AMP 2-POLE SPARE CB FOR FUTURE			2.4			20/1	S P A R E	24
NOTES:		3.7	5.1	4.8	5.9	7.6	6.4		
LOAD LISTED FOR FUTURE SCOREBOARD IS INCLUDED FOR REFERENCE ONLY.		ARB#CP TOTAL		TOTAL KVA					
		19.9		19.9					
		19.9 x 1000 / (208 x 1.73) = 55.3 x 1.25 = 69A							



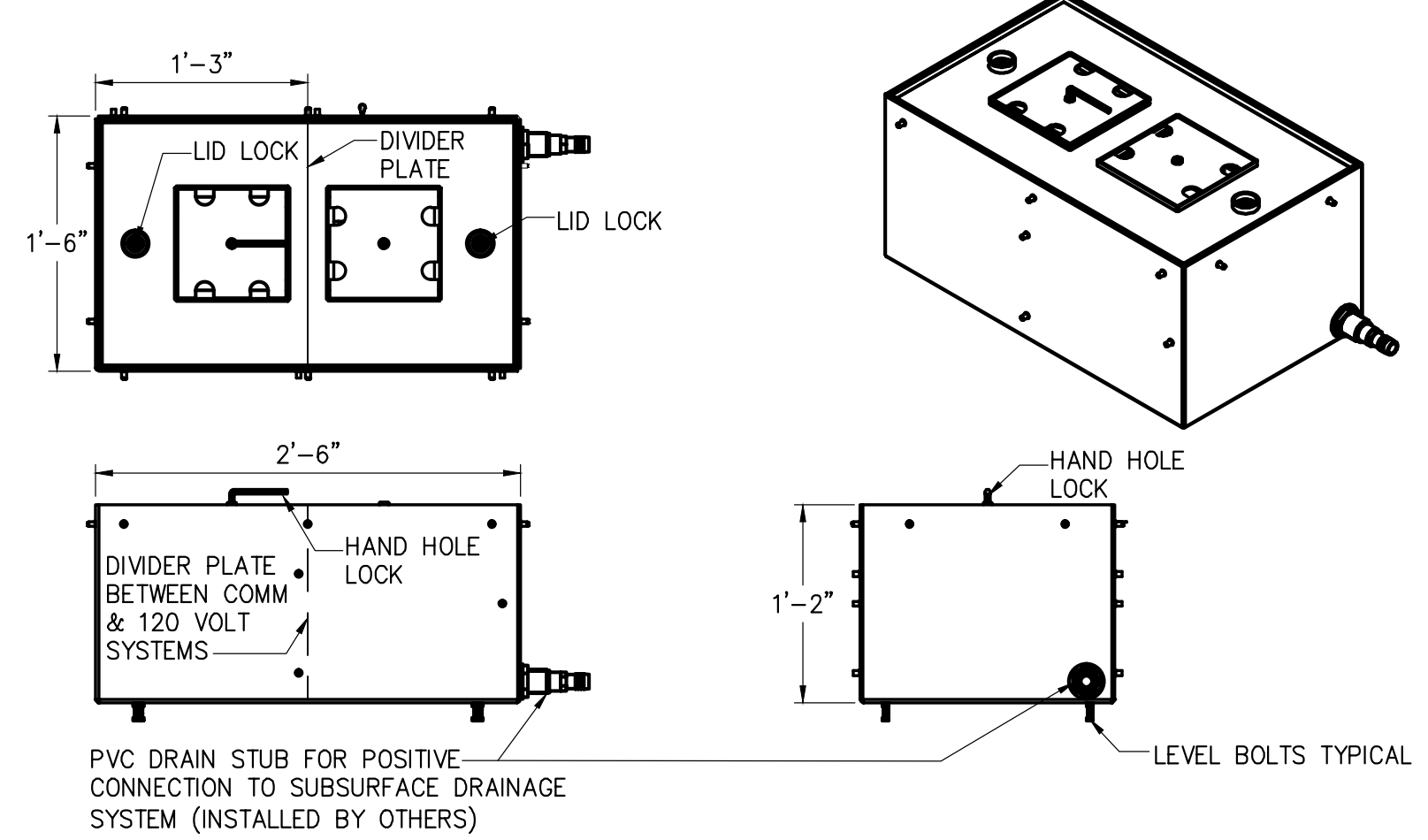
NOTE: ANCHOR CONDUITS AS REQUIRED TO PREVENT MOVEMENT THRU PENETRATION.

1 FIRESTOP AT CONDUIT PENETRATION
SCALE: NONE



NOTE:
1. COORDINATE PLACEMENT OF NEW CONDUITS AND HANDHOLES WITH REMOVAL OF EXISTING FLOOR AND PLACEMENT OF NEW FLOOR SUBSURFACE AND FINISH.

2 UNDER FLOOR CONDUIT INSTALLATIONS
SCALE: NONE



NOTE:
THIS DETAIL IS FOR A SPORTSFIELD SPECIALTIES 3000 COMBOX. PROVIDE THIS PRODUCT OR USC 712-1150 OR EQUAL. DIMENSIONS NOTED ARE MINIMUM REQUIRED. PROVIDE LARGER BOXES AS REQUIRED BY NEC. 120 VOLT DUPLEX RECEPTACLES AND DATA/COMMUNICATIONS DEVICES ARE NOT SHOWN FOR CLARITY.

3 120 VOLT GFI & DATA/COMM IN FLOOR SYSTEMS BOX
SCALE: NONE

ABBREVIATIONS SEE ALSO ABBREVIATIONS LISTS ON A, C and S SERIES OF DRAWINGS

A AMPERE	AC ALTERNATING CURRENT	ID IDENTIFY and IDENTIFICATION
AF AMP FUSE / AMP FRAME	AF ABOVE FINISHED FLOOR	IN/\"/>
AFF ABOVE FINISHED FLOOR	AFC AMPERE INTERRUPTING CAPACITY	JB JUNCTION BOX
AT AMP TRIP	AUX AUXILIARY	kcmil THOUSAND CIRCULAR MILS
A/V AUDIBLE/VISUAL	AWG AMERICAN WIRE GAUGE	kVA KILO VOLT-AMPERE
BCW BARE COPPER WIRE		kW KILOWATT
C CONDUIT	CATV COMMUNITY ACCESS TELEVISION (CABLE TV)	LOD LIQUID CRYSTAL DISPLAY
CKT CIRCUIT	CL CENTER LINE	LED LIGHT EMITTING DIODE
COMP COMPACT OR COMPRESSOR	CUH CABINET UNIT HEATER	L LOUVER
CT CURRENT TRANSFORMER		MCA MINIMUM CIRCUIT AMPACITY
DB DECEBEL	DN DOWN	MCB MAIN CIRCUIT BREAKER
DIA DIAMETER	DWG DRAWING	MH METAL HALIDE
EA EACH	EF EXHAUST FAN	MECH MECHANICAL
EM EMERGENCY	E-E EQUIP EQUIPMENT	ML MOTORIZED LOUVER
EWC ELECTRIC WATER COOLER	EWH ELECTRIC WATER HEATER	MLO MAIN LUGS ONLY
F FUSE and FUSED	FA FIRE ALARM	MOCP MAXIMUM OVER-CURRENT PROTECTION
FACP FIRE ALARM CONTROL PANEL	FLA FULL LOAD AMPS	NEC NATIONAL ELECTRICAL CODE 2011
FT/\"/>		
G, GND GROUND	GFI GROUND FAULT CIRCUIT INTERRUPTER	NIC NOT INCLUDED IN CONTRACT
GFP GROUND FAULT PROTECTION	HID HIGH INTENSITY DISCHARGE	NL NIGHT LIGHT
HO HIGH OUTPUT	HOA HAND-OFF-AUTOMATIC	No./# NUMBER
HP HORSEPOWER	HPF HIGH POWER FACTOR	OC OVER COUNTER
		OS OCCUPANCY SENSOR
		P POLE(S)
		Ø PHASE
		RLA RUNNING LOAD AMPS
		RMC RIGID METAL CONDUIT
		T TRANSFORMER
		T-STAT THERMOSTAT
		TYP TYPICAL
		TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
		UH UNIT HEATER
		UON UNLESS OTHERWISE NOTED
		V VOLT(S)
		VA VOLT-AMPERES
		W WATT and WIRE
		WH WATER HEATER
		w/ WITH
		WP WEATHERPROOF

GENERAL NOTES

- ALL WORK SHOWN ON THE ELECTRICAL DRAWINGS SHALL BE BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED AND/OR INDICATED. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE ALL EQUIPMENT, FIXTURES DEVICES, APPLIANCES, CONDUIT, WIRING, MATERIALS, ETC. INDICATED BY SYMBOLS ON THESE DRAWING UNLESS OTHERWISE NOTED.
- REFER TO CIVIL, ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SYMBOLS AND INFORMATION ASSOCIATED WITH WORK BY OTHER DISCIPLINES THAT IMPACTS THE ELECTRICAL SCOPE OF WORK.
- COORDINATE WORK WITH ALL TRADES.
- CIRCUITRY SHOWN IS DIAGRAMATIC UNLESS OTHERWISE NOTED. EXACT LOCATION OF ALL CONDUIT RUNS SHALL BE DETERMINED IN THE FIELD. COORDINATE INSTALLATIONS AND AVOID CONFLICT WITH EQUIPMENT, PIPING, DUCTWORK, ETC.
- LOCATIONS OF PANELS ARE SHOWN FOR CLARITY. INSTALLED LOCATIONS MAY BE CHANGED TO SUIT SITE CONDITIONS. INSTALL ELECTRICAL EQUIPMENT TO COMPLY WITH ALL APPLICABLE NEC REQUIREMENTS REGARDING MINIMUM CLEARANCES, CLEAR WORKING SPACE AND DEDICATED SPACE ABOVE EQUIPMENT.
- GENERAL NOTES APPLY TO ALL ELECTRICAL DRAWINGS.

ELECTRICAL SYMBOLS LEGEND

--- BELOW FLOOR CONDUIT(S) WITH WIRING OR PULL ROPE AS INDICATED. MINIMUM CONDUIT SIZE FOR ABOVE GROUND INSTALLATIONS SHALL BE 1/2\"/>

PA # CIRCUIT HOMERUN BACK TO PANEL AS NOTED ON TOP LINE AND CIRCUIT BREAKER AS NOTED BY NUMBER(S) ON BOTTOM LINE. DASHED LINE INDICATES WIRING IN CONDUIT UNDER FLOOR SLAB.

SIGNIFIES (1) 120 VOLT SINGLE PHASE CIRCUIT

SIGNIFIES (2) 120 VOLT SINGLE PHASE CIRCUITS

SIGNIFIES (3) 120 VOLT SINGLE PHASE CIRCUITS

SIGNIFIES 208 VOLT SINGLE PHASE CIRCUIT

###/### SIGNIFIES 208 VOLT THREE PHASE CIRCUIT

MINIMUM CONDUIT SIZE SHALL FOR BELOW FLOOR 120 VOLT SYSTEMS INSTALLATIONS BE 3/4\"/>

LARGER WIRE SIZE MAY BE NOTED TO LIMIT VOLTAGE DROP AS REQUIRED BY NEC. WHERE NOTED, PROVIDE WIRE SIZE INDICATED BY HOMERUN TO THE LAST FIXTURE, DEVICE, EQUIPMENT, ETC. ON THE CIRCUIT UNLESS OTHERWISE NOTED.

DO NOT SHARE NEUTRAL CONDUCTORS. PROVIDE SEPARATE NEUTRAL CONDUCTOR FOR EACH AND EVERY SINGLE PHASE 120 VOLT BRANCH CIRCUIT INSTALLED.

PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN EVERY CONDUIT INSTALLED.

INDIVIDUAL HOMERUNS MAY BE SHOWN FOR CLARITY. MULTIPLE HOMERUNS MAY BE COMBINED IN A SINGLE CONDUIT SUBJECT TO COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF NEC.

■ PROVIDE NEW, SURFACE MOUNT, BRANCH CIRCUIT PANELBOARD, 208/120V

☒ PROVIDE HANDHOLES WITH INTEGRAL BARRIERS, MAIN COVER ASSEMBLY WITH DEVICE COVERS AS REQUIRED. PROVIDE HANDHOLES MANUFACTURED BY SPORTSFIELD SPECIALTIES COMBOX 3000 SERIES, UCS 712-1150 SERIES OR EQUAL IDENTIFYING SUBSCRIPT LETTERS AND NUMBER AS APPLICABLE.

CP# HANDHOLE FOR COMMUNICATIONS AND POWER

DP# HANDHOLE FOR DATA AND POWER

SP# HANDHOLE FOR STARTING AND POWER

TP# HANDHOLE FOR TIMING AND POWER

PROVIDE CONDUITS, WIRING AND DEVICES AS NOTED FOR 120 VOLT DEVICES IN HANDHOLES. PROVIDE CONDUITS WITH PULL ROPE FOR COMMUNICATIONS AND DATA WIRING.

⊕ 20 AMP SPECIFICATION GRADE DUPLEX RECEPTACLE - WALL MOUNTED 36\"/>

☒ HANDHOLE INSTALLATIONS: DEVICES ARE NOT SHOWN FOR CLARITY. PROVIDE DEVICE(S) IN WEATHERPROOF BOX WITH WEATHERPROOF COVERS FOR ALL DEVICES INSTALLED IN HANDHOLES.

☒ DEVICE SYMBOLS WITH SUBSCRIPT LETTERS AND NUMBER IDENTIFIES SOURCE PANEL AND/OR CIRCUIT NUMBER THAT SUPPLY THE DEVICE.

☒ NON-FUSED DISCONNECT SWITCH SHALL REMAIN

☒ FUSED DISCONNECT SWITCH SHALL REMAIN

☒ MOTOR STARTER SHALL REMAIN

DIAGRAMS PROVIDE EQUIPMENT AND DEVICES COMPLETE PER DIAGRAM(S)

+ CONNECTED CONDUCTORS

☐ TRANSFORMER

⊕ NON-FUSED DISCONNECT SWITCH

☒ FUSE

☒ FUSED DISCONNECT SWITCH AND/OR BOLT PRESSURE SWITCH (BPS)

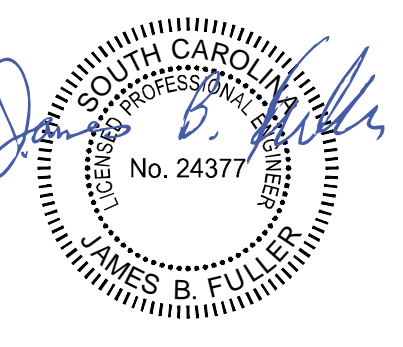
AMP TRIP 400AF

POLES 3P

☒ CIRCUIT BREAKER

GENERAL

- ⊕ NUMBER IN CIRCLE, WITH OR WITHOUT ARROW OR LEADER: REFER TO THE CODED NOTE WITH THE CORRESPONDING NUMBER REGARDING SPECIFIC NEW WORK REQUIREMENTS.
- ◇ NUMBER IN DIAMOND, WITH OR WITHOUT ARROW OR LEADER: REFER TO THE CODED NOTE WITH THE CORRESPONDING NUMBER REGARDING SPECIFIC EXISTING CONDITION AND/OR REMOVAL WORK REQUIREMENTS.



IT IS A VIOLATION OF LAW FOR ANY PERSON, WHOSE NAME IS LISTED UNDER THE SIGNATURE OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR PROFESSIONAL LANDSCAPE ARCHITECT, TO ALTER OR CHANGE THE SIGNATURE OF ANY LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR PROFESSIONAL LANDSCAPE ARCHITECT BY ANY MEANS. ANY SUCH VIOLATION SHALL BE CONSIDERED A VIOLATION OF THE PROFESSIONAL ENGINEERING ACT AND SHALL BE PUNISHED AS SUCH. THE SIGNATURE OF ANY LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR PROFESSIONAL LANDSCAPE ARCHITECT SHALL BE VOID IF IT IS NOT ACCOMPANIED BY THE SIGNATURE OF THE LICENSED PROFESSIONAL ENGINEER, ARCHITECT OR PROFESSIONAL LANDSCAPE ARCHITECT.



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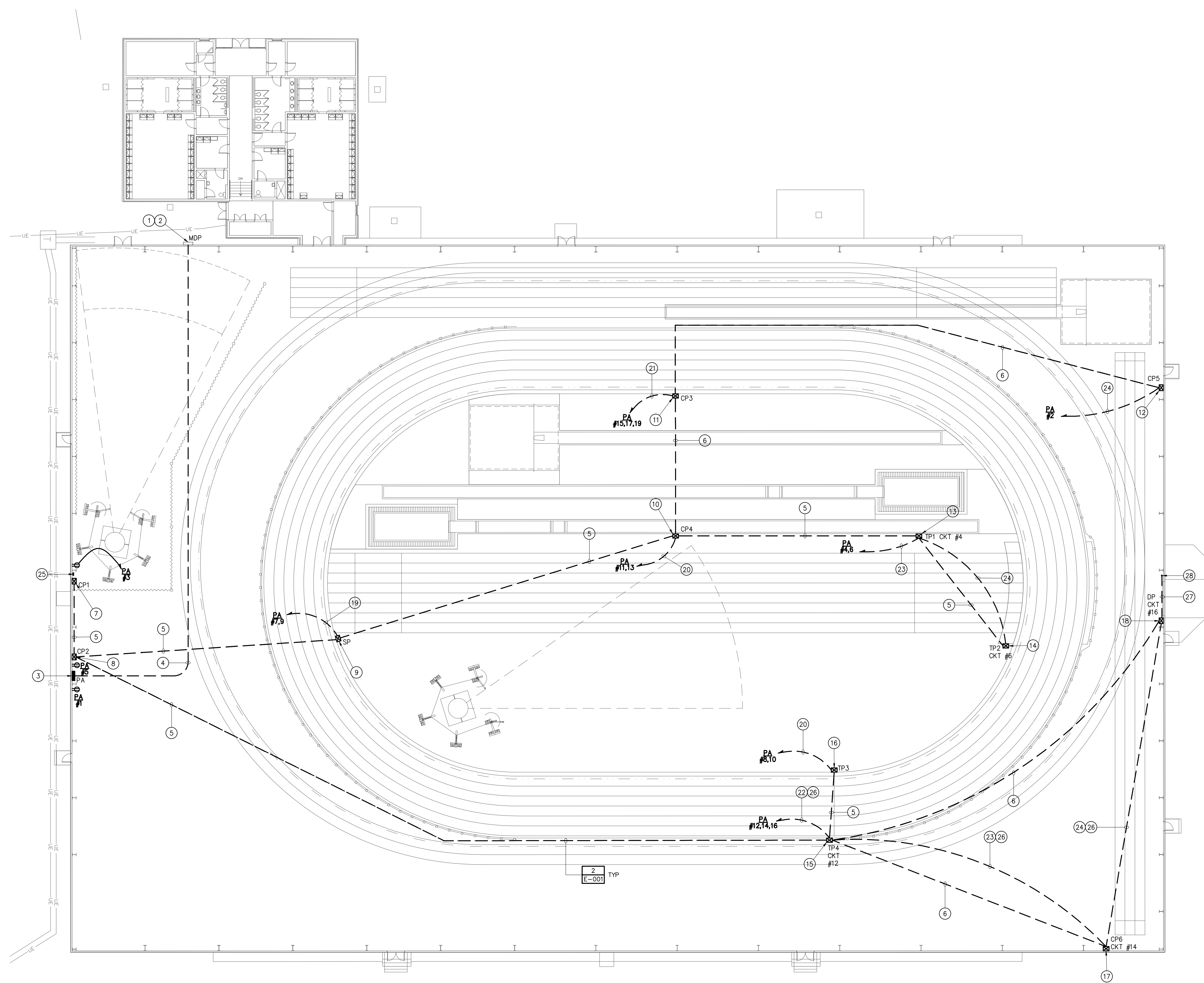
No. Submitted/Revision App'd. By Date

STATE ENGINEER'S CCS AM 03/23/16 REVIEW

ELECTRICAL LEGEND AND ABBREVIATIONS

Designed By: RB
Drawn By: AM
Checked By: MS
Issue Date: 03-23-2016
Project No: 27482
Scale: AS SHOWN

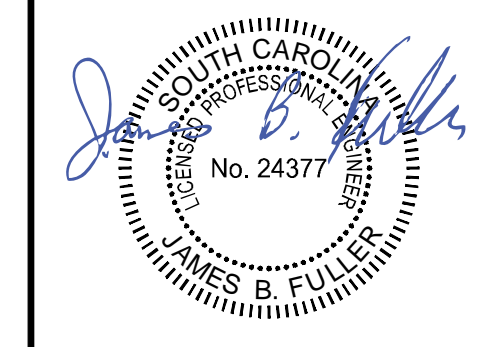
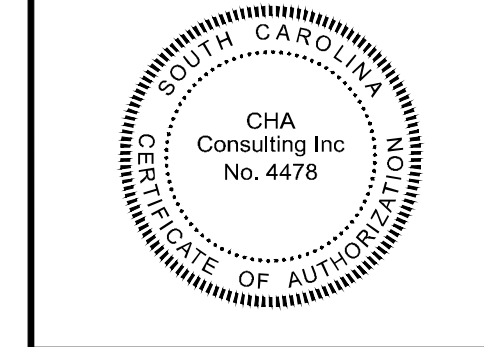
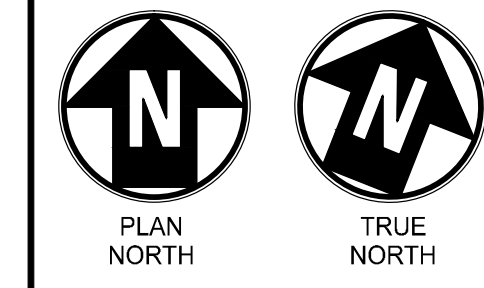
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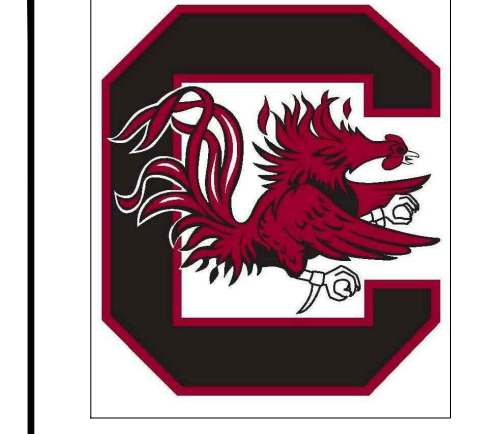
- GENERAL NOTES:**
- ALL EXISTING ELECTRICAL EQUIPMENT IN THIS FACILITY IS NOT SHOWN FOR CLARITY. ALL EXISTING ELECTRICAL EQUIPMENT IN THIS FACILITY SHALL REMAIN IN PLACE AND OPERATIONAL UNLESS SPECIFICALLY NOTED OTHERWISE.
 - PROVIDE ALL EQUIPMENT, FIXTURES, DEVICES, APPLIANCES, RACEWAYS, SUPPORTS, BRANCH FEEDERS, BRANCH CIRCUITRY, ACCESSORIES, ETC. SHOWN, NOTED AND/OR INDICATED ON THIS DRAWING.
 - INSTALL EQUIPMENT AS NOTED ON ALL ELECTRICAL PLANS AND AS NOTED ON THE ONE LINE DIAGRAM.
 - SCHEDULE AND EXECUTE ALL WORK TO MINIMIZE THE DOWN TIME TO THE ELECTRICAL SERVICE AT THIS FACILITY.
 - REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - PROVIDE HANDHOLES WITH BARRIERS BETWEEN THE 120 VOLT OUTLET SIDE AND THE COMMUNICATIONS/TIMING/DATA SIDE. PROVIDE 120 VOLT GFI RECEPTACLES IN THE HANDHOLE AS REQUIRED BY CODED NOTES BELOW. SEE DETAIL 3/E-001 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - FIRESTOP AND WATERPROOF ALL CONDUIT PENETRATIONS THROUGH THE BUILDING WALL PER DETAIL 1/E-001.
 - MANY 120 VOLT CONDUCTORS ARE OVSIZED TO LIMIT VOLTAGE DROP AT LOAD. PROVIDE MATERIALS AND METHODS TO TERMINATE OVSIZED CONDUCTORS AT CIRCUIT BREAKERS AND DEVICES AS REQUIRED BY NEC.
 - SPARE CAPACITY ON THE 1200 AMP SERVICE ENTRANCE PANEL MDP MUST BE CONFIRMED WITH 12 MONTH KW DEMAND DATA FROM THE LOCAL UTILITY COMPANY OR 30 DAY METERING AS REQUIRED BY NEC ARTICLE 220.87 PRIOR TO ISSUING DRAWINGS FOR CONSTRUCTION.

- CODED DRAWING NOTES:**
- THE 1200 AMP, 208/120 VOLT SERVICE ENTRANCE PANEL MDP SHALL REMAIN.
 - PROVIDE A 100A/3P CIRCUIT BREAKER IN AVAILABLE SPACE IN PANEL MDP TO SUPPLY NEW PANEL PA.
 - PROVIDE PANELBOARD PA PER PANELBOARD SCHEDULE AND TECHNICAL SPECIFICATIONS.
 - PROVIDE CONDUIT AND CABLE TO SUPPLY PANEL PA PER ONE LINE DIAGRAM.
 - PROVIDE (2) 2 INCH COMMUNICATIONS CONDUITS EACH w/ PULL ROPE.
 - PROVIDE (1) 2 INCH COMMUNICATIONS CONDUIT EACH w/ PULL ROPE.
 - PROVIDE HANDHOLE CP1.
 - PROVIDE HANDHOLE CP2.
 - PROVIDE HANDHOLE SP WITH (2) 20 AMP GFI RECEPTACLES.
 - PROVIDE HANDHOLE CP4 WITH (2) 20 AMP GFI RECEPTACLES.
 - PROVIDE HANDHOLE CP3 WITH (3) 20 AMP GFI RECEPTACLES.
 - PROVIDE HANDHOLE CP5 WITH (1) 20 AMP GFI RECEPTACLE.
 - PROVIDE HANDHOLE TP1 WITH (1) 20 AMP GFI RECEPTACLE.
 - PROVIDE HANDHOLE TP2 WITH (1) 20 AMP GFI RECEPTACLE.
 - PROVIDE HANDHOLE TP4 WITH (1) 20 AMP GFI RECEPTACLE.
 - PROVIDE HANDHOLE TP3 WITH (2) 20 AMP GFI RECEPTACLES.
 - PROVIDE HANDHOLE CP6 WITH (1) 20 AMP GFI RECEPTACLE.
 - PROVIDE HANDHOLE DP WITH (1) 20 AMP GFI RECEPTACLE AND WITH WIRING FOR FUTURE SCOREBOARD.
 - PROVIDE 1" C. w/ (4) #6, #6 G.
 - PROVIDE 1-1/4" C. w/ (4) #4, #4 G.
 - PROVIDE 1-1/4" C. w/ (6) #4, #4 G.
 - PROVIDE 1-1/2" C. w/ (6) #2, #2 G.
 - PROVIDE 1-1/2" C. w/ (4) #2, #2 G.
 - PROVIDE 1-1/4" C. w/ (2) #2, #2 G.
 - STUB UP (2) 2 INCH CONDUITS FROM HANDHOLE CP1 TO 3 FEET ABOVE FINISHED FLOOR. CAP CONDUITS ABOVE GROUND FOR FUTURE USE.
 - PROVIDE 1-1/2" C. w/ (3) #2, #2 G. FOR FUTURE SCORE BOARD. LEAVE CABLE AND MAKE SAFE IN HANDHOLE DP FOR FUTURE SPLICE TO SCOREBOARD. LEAVE CABLE SAFE IN PANEL PA FOR FUTURE TERMINATION AT SCOREBOARD CIRCUIT BREAKER.
 - PROVIDE 1-1/2" CONDUIT FROM HANDHOLE DP FOR FUTURE.
 - STUB 1-1/2 INCH CONDUIT FROM HANDHOLE DP TO 3 FEET ABOVE FINISHED FLOOR. CAP CONDUIT ABOVE GROUND FOR FUTURE USE.

1 ELECTRICAL POWER AND COMMUNICATIONS RACEWAY PLAN
SCALE: 1/16" = 1'-0"



IT IS A CONDITION OF USE FOR ANY PERSON, INDIVIDUAL OR ENTITY, TO ALTER OR MODIFY ANY PORTION OF THIS DRAWING OR TO REPRODUCE OR TRANSMIT THIS DRAWING IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF CHA CONSULTING INC. ANY SUCH ALTERATION OR REPRODUCTION SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO CHA CONSULTING INC. FOR ANY DAMAGE OR LOSS OF ANY KIND.



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ATHLETIC VILLAGE IMPROVEMENTS - FIELD HOUSE CONVERSION
116 MARION STREET
COLUMBIA, S.C. 29205
STATE PROJECT NO: H27-6105-MJ-C

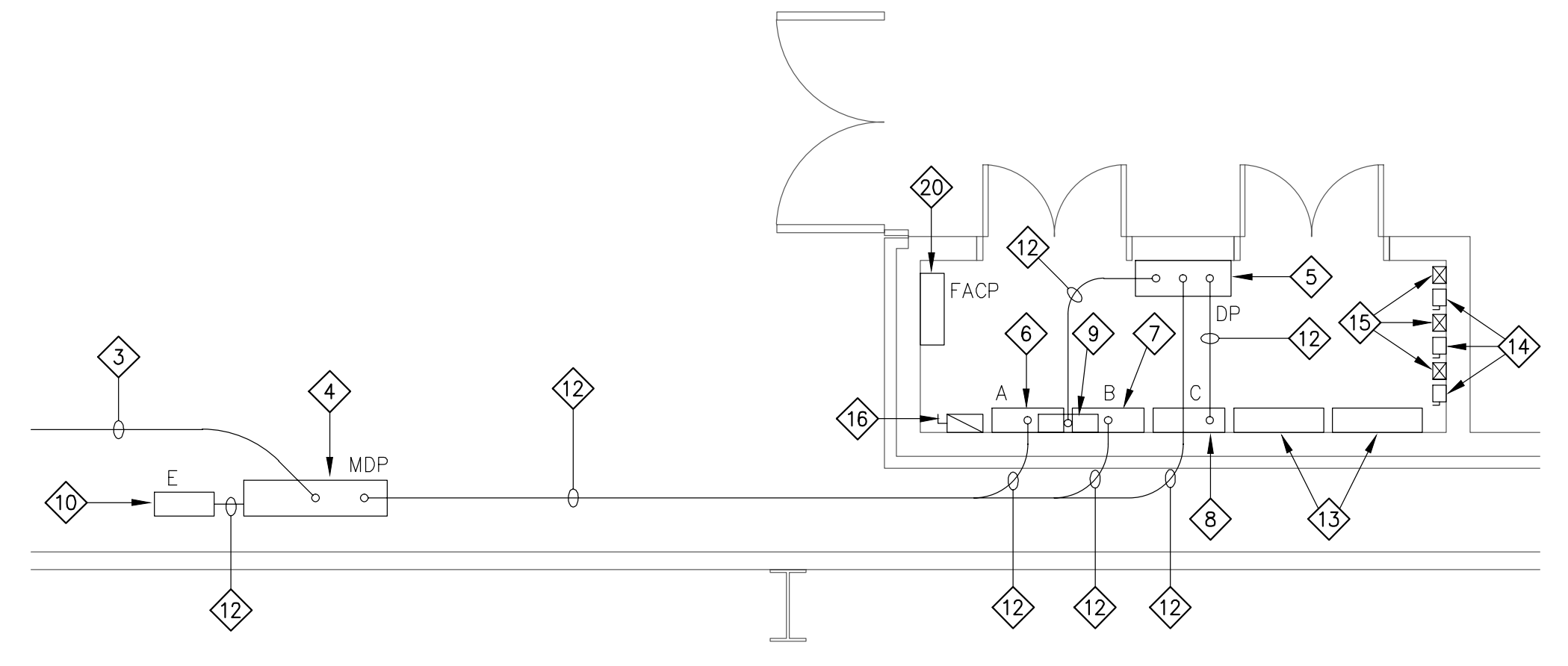
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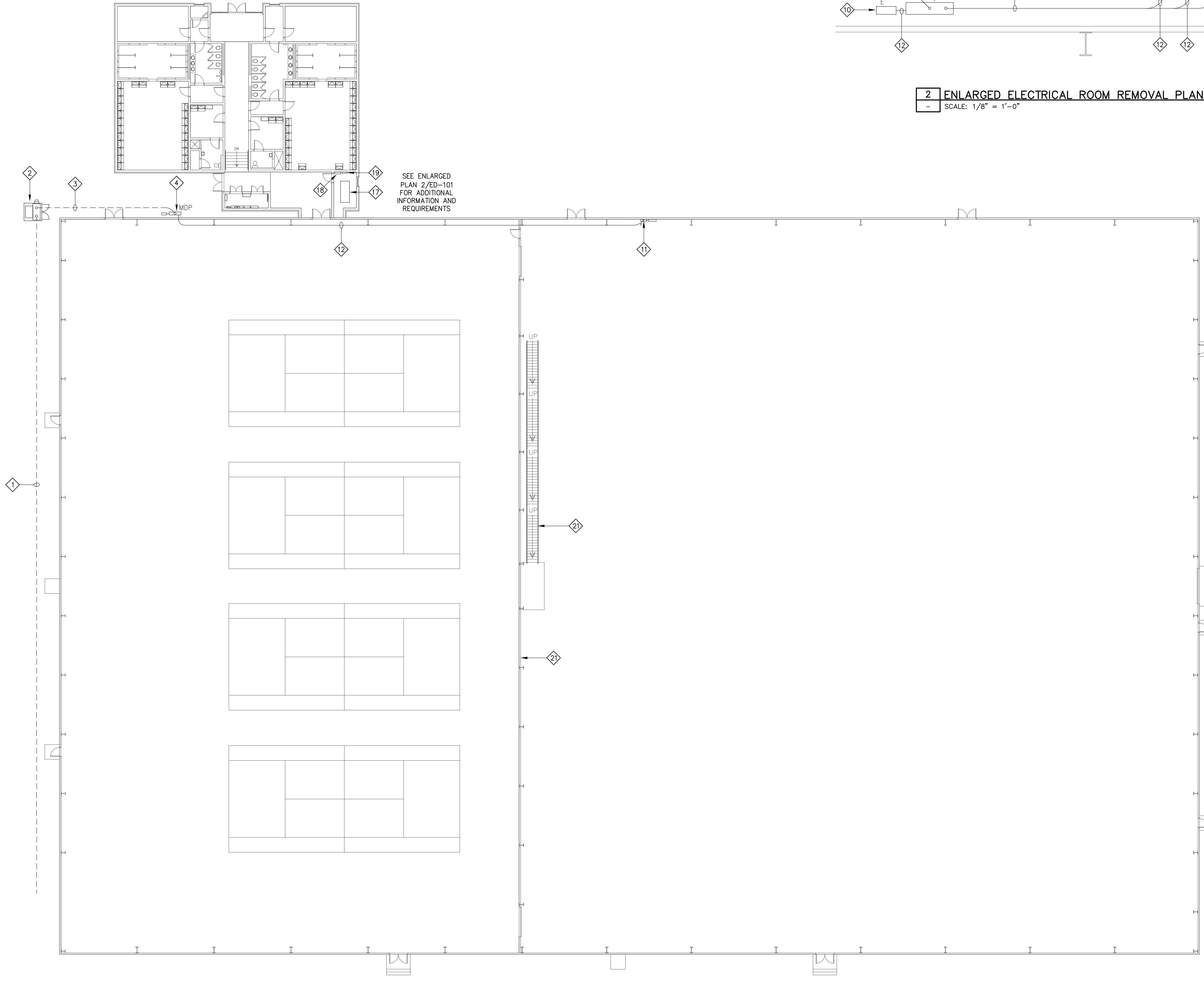
ELECTRICAL POWER PLAN

Designed By: RB Drawn By: EC Checked By: MS
Issue Date: 03-23-2016 Project No: 27482 Scale: AS SHOWN

Drawing No.: **E-101**



2 ENLARGED ELECTRICAL ROOM REMOVAL PLAN
SCALE: 1/8" = 1'-0"



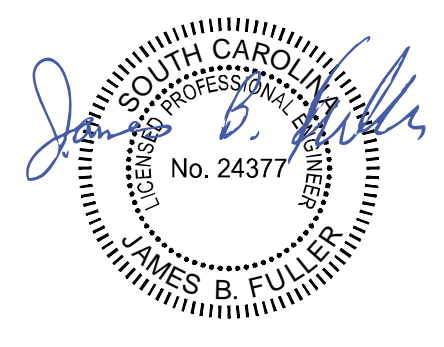
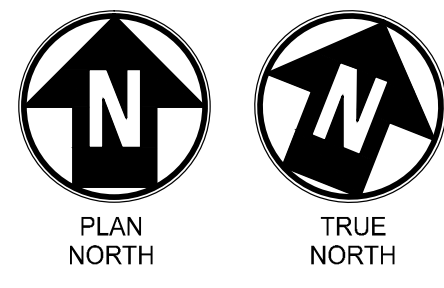
1 EXISTING CONDITION - REMOVAL ELECTRICAL PLAN
SCALE: 1/16" = 1'-0"

GENERAL REMOVAL NOTES:

1. INFORMATION SHOWN ON THIS DRAWING IS BASED ON VISUAL OBSERVATIONS ONLY. THIS DRAWING DOES NOT SHOW ALL EXISTING EQUIPMENT, FIXTURES, DEVICES, APPLIANCES, ETC. IN PLACE AT THE FIELD HOUSE.
2. ALL EXISTING EQUIPMENT, FIXTURES, DEVICES, APPLIANCES, ETC. IN PLACE AT THE FIELD HOUSE SHALL REMAIN IN PLACE AND OPERATIONAL THROUGHOUT THIS PROJECT UNLESS OTHERWISE NOTED.
3. DISCONNECT AND REMOVE EQUIPMENT, FIXTURES, DEVICES, APPLIANCES, COMPONENTS, CONDUITS, WIRING, ETC. PER CODED REMOVAL NOTES. REMOVE BRANCH CIRCUITRY AND BRANCH FEEDERS BACK TO SOURCE.
4. USC RESERVES THE RIGHT TO RETAIN EQUIPMENT, FIXTURES, DEVICES, APPLIANCES, ETC. REMOVED BY THIS CONTRACT.
5. COORDINATE WITH AN AUTHORIZED REPRESENTATIVE OF USC REGARDING SPECIFIC EQUIPMENT, FIXTURES, DEVICES, APPLIANCES, ETC. TO BE TURNED OVER TO USC.
6. DISPOSE OF OFF SITE AND IN A LEGAL MANNER ALL REMOVED EQUIPMENT FIXTURES, DEVICES, APPLIANCES, ETC. THAT USC DOES NOT WANT TO RETAIN.

CODED DRAWING REMOVAL NOTES:

- 1 THE UNDERGROUND, 15 KV CABLES BETWEEN THE 500 KVA TRANSFORMER AND THE UNDERGROUND VAULT SHALL REMAIN.
- 2 THE 500 KVA PAD MOUNT TRANSFORMER AND METER SOCKET SHALL REMAIN.
- 3 THE (4) SETS OF SERVICE LATERAL CONDUCTORS BETWEEN THE 500 KVA TRANSFORMER AND THE 1200 MAIN DISTRIBUTION PANEL MDP SHALL REMAIN.
- 4 THE 1200 AMP, 208/120 VOLT SERVICE ENTRANCE PANEL MDP SHALL REMAIN.
- 5 600 AMP PANEL DP SHALL REMAIN.
- 6 225 AMP PANEL A SHALL REMAIN.
- 7 225 AMP PANEL B SHALL REMAIN.
- 8 225 AMP PANEL C SHALL REMAIN.
- 9 100 AMP PANEL D SHALL REMAIN.
- 10 100 AMP PANEL E SHALL REMAIN.
- 11 225 AMP PANEL F SHALL REMAIN.
- 12 EXISTING BRANCH FEEDERS FROM SOURCE PANEL TO SUB PANELS SHALL REMAIN.
- 13 THE LIGHTING CONTACTOR PANEL THAT CONTROL FIXTURES ABOVE THE PRACTICE FIELD SHALL REMAIN.
- 14 (9) 30A/3P, 250 VOLT SAFETY DISCONNECT SWITCHES SHALL REMAIN.
- 15 (9) MAGNETIC MOTOR STARTERS SHALL REMAIN.
- 16 SAFETY DISCONNECT SWITCH SHALL REMAIN.
- 17 THE NATURAL GAS GENERATOR SHALL REMAIN.
- 18 THE 60 AMP AUTOMATIC TRANSFER SWITCH SHALL REMAIN.
- 19 THE 60 AMP "EMERGENCY PANEL", AND ALL BRANCH FEEDERS AND BRANCH CIRCUITS SHALL REMAIN.
- 20 THE "SIMPLEX" 4010 FIRE ALARM CONTROL PANEL SHALL REMAIN.
- 21 DISCONNECT AND REMOVE ALL ELECTRICAL CIRCUITRY AND DEVICES ON WALL AND STAIRS.



IT IS A MATTER OF LAW FOR ANY PERSON, WHOSE NAME IS LISTED UNDER THE SIGNATURE OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER IN ANY MANNER ANY INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN CONSENT OF THE ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR WHOSE NAME IS LISTED ON THE DRAWING. ANY SUCH ALTERATION SHALL BE AT THE ALTERER'S SOLE RISK AND WITHOUT LIABILITY TO CHA CONSULTING INC.



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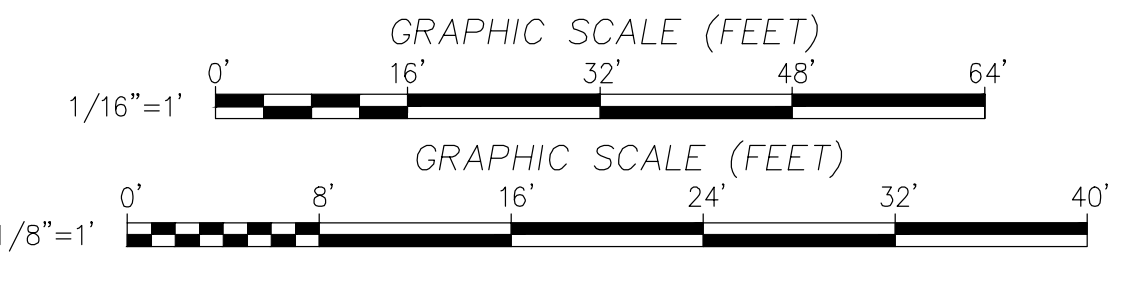
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EXISTING CONDITION - REMOVAL ELECTRICAL PLAN

Designed By: Drawn By: Checked By:
RB AM MS
Issue Date: Project No: Scale:
03-23-2016 27482 AS SHOWN

Drawing No.:
ED-101



LOAD CALCULATIONS:

EXISTING 1200 AMP 208/120 VOLT 3Ø 4 WIRE SERVICE ENTRANCE PANEL MDP.

SPARE CAPACITY ON THE 1200 AMP SERVICE ENTRANCE PANEL MDP HAS NOT YET BEEN CONFIRMED BY SCE&G.

SPARE CAPACITY ON THE 1200 AMP SERVICE ENTRANCE PANEL MDP MUST BE CONFIRMED WITH 12 MONTH KW DEMAND DATA FROM THE LOCAL UTILITY COMPANY OR 30 DAY METERING AS REQUIRED BY NEC ARTICLE 220.87 PRIOR TO ISSUING DRAWINGS FOR CONSTRUCTION.

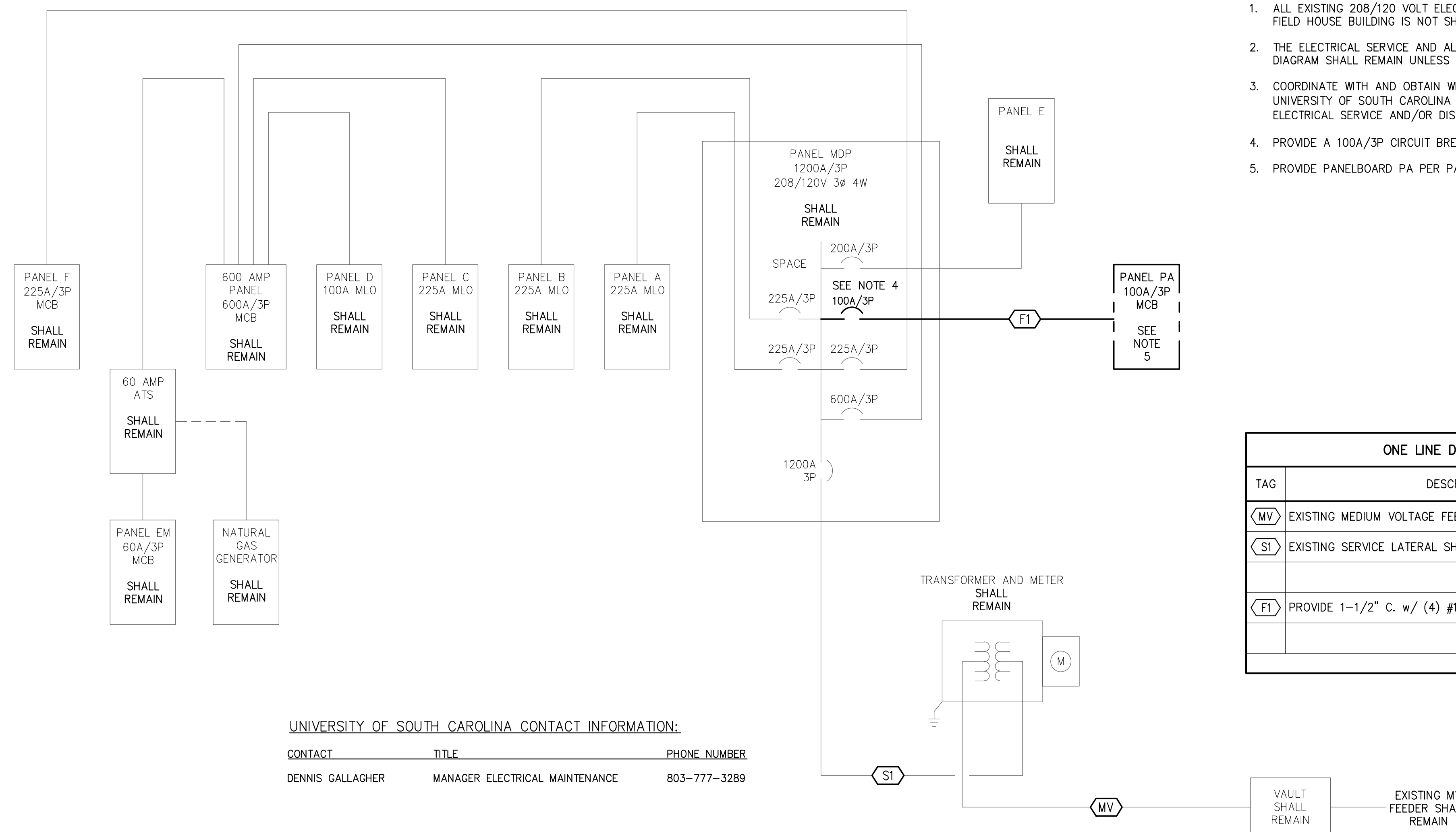
SEE PANELBOARD PA SCHEDULE FOR SPECIFIC LOAD INFORMATION.

GENERAL ONE LINE DIAGRAM NOTES:

- A. EQUIPMENT, CONDUITS, WIRING, ETC. SHOWN WITH DARK LINES ON THIS DIAGRAM REPRESENT EQUIPMENT, CONDUIT, WIRING, ETC. THAT SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- B. EQUIPMENT, CONDUITS, WIRING, ETC. SHOWN WITH LIGHT, CONTINUOUS LINES ON THIS DIAGRAM REPRESENTS EXISTING EQUIPMENT, CONDUITS AND CABLES THAT SHALL REMAIN.
- C. SEE DRAWINGS ED-101 AND E-101 FOR EQUIPMENT LOCATIONS.
- D. PROVIDE CONDUITS AND CABLES AS LISTED IN THE ONE LINE DIAGRAM - CONDUIT & CABLE SCHEDULE.

ONE LINE DIAGRAM NOTES:

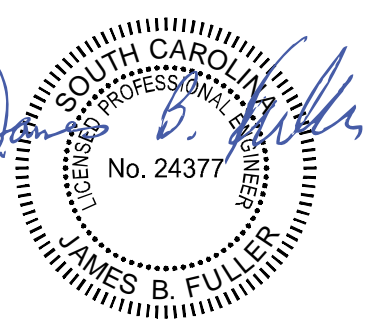
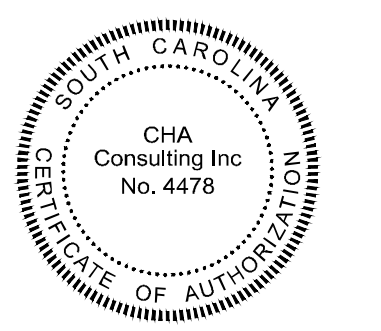
1. ALL EXISTING 208/120 VOLT ELECTRICAL EQUIPMENT THAT IS INSTALLED AT VARIOUS LOCATIONS IN THE FIELD HOUSE BUILDING IS NOT SHOWN ON THIS DIAGRAM FOR CLARITY.
2. THE ELECTRICAL SERVICE AND ALL ELECTRICAL EQUIPMENT AND BRANCH FEEDERS SHOWN ON THIS DIAGRAM SHALL REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.
3. COORDINATE WITH AND OBTAIN WRITTEN PERMISSION FROM AN AUTHORIZED REPRESENTATIVE OF THE UNIVERSITY OF SOUTH CAROLINA (USC) PRIOR TO ANY INTERRUPTION OF POWER TO THE EXISTING ELECTRICAL SERVICE AND/OR DISTRIBUTION SYSTEM.
4. PROVIDE A 100A/3P CIRCUIT BREAKER IN AVAILABLE SPACE IN PANEL MDP TO SUPPLY NEW PANEL PA.
5. PROVIDE PANELBOARD PA PER PANEL PA SCHEDULE AND TECHNICAL SPECIFICATIONS.



UNIVERSITY OF SOUTH CAROLINA CONTACT INFORMATION:
 CONTACT TITLE PHONE NUMBER
 DENNIS GALLAGHER MANAGER ELECTRICAL MAINTENANCE 803-777-3289

1 ADDITION TO EXISTING ELECTRICAL SYSTEM - ONE LINE DIAGRAM
 - SCALE: NONE

ONE LINE DIAGRAM - CONDUIT & CABLE SCHEDULE		
TAG	DESCRIPTION	REMARKS
<MV>	EXISTING MEDIUM VOLTAGE FEEDER SHALL REMAIN	
<ST>	EXISTING SERVICE LATERAL SHALL REMAIN	
<F1>	PROVIDE 1-1/2" C. w/ (4) #1, #6 G.	



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ELECTRICAL ONE LINE DIAGRAM

Designed By: RB
 Drawn By: AM
 Checked By: MS
 Issue Date: 03-23-2016
 Project No: 27482
 Scale: AS SHOWN

Drawing No.: **E-201**