CHEROKEE HARD ROCK CASINO 4

CONSTRUCTION SET

CHEROKEE NATION ENTERTAINMENT

CONSTRUCTION SET

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MEP Engineering

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702-896-1100

Civil Engineering/ Surveying

Native Plains Surveying and Mapping /
RK & Associates PLC
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SHEET INDEX

SHEET NUMBER	SHEET NAME	BID SET 04.23.2018	ADDENDUM #1 04.06.2018	ADDENDUM #2 05.04.2018
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C-100	SURVEY TOPO			■
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C-102	PAVING PLAN			■
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C-104	GRADING PLAN			■
C-105	JOINT LAYOUT			■
C-106	STRIPING PLAN			■
C-107	SOIL EROSION CONTROL PLAN			■
C-108	UTILITY PLAN		■	■
C-109	UTILITY TYPICAL SECTIONS AND NOTES AND SOIL EROSION CONTROL DETAILS			■
C-110	UTILITY PROFILES		■	■
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S-304	WALL SECTIONS	■		■
S-311	FOUNDATION SECTIONS	■		■
S-312	FOUNDATION SECTIONS	■		■
S-313	FOUNDATION SECTIONS	■		■
S-321	FLOOR FRAMING SECTIONS	■		■
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S-332	ROOF FRAMING SECTIONS	■		■
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S-541	STEEL DETAILS	■		■
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S-561	TYPICAL VERTICAL CIRCULATION DETAILS	■		■
S-601	SCHEDULES	■		■
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AD-112	FIRST FLOOR DEMOLITION PLAN AREA 2			■
AD-122	SECOND FLOOR DEMOLITION PLAN, SECTION, AND ELEVATION AREA 2	■		■
A-110	FIRST FLOOR PLAN OVERALL	■		■
A-110.1	FIRST FLOOR PLAN OVERALL-INTERIOR			■
A-110.2	FIRST FLOOR PLAN - ACCESS FLOOR-INTERIOR			■
A-111	FIRST FLOOR PLAN AREA 1	■		■
A-112	FIRST FLOOR PLAN AREA 2	■		■
A-113	FIRST FLOOR PLAN AREA 3	■		■
A-120	SECOND FLOOR OVERALL	■		■
A-122	SECOND FLOOR AREA 2	■		■
A-130	ROOF PLAN OVERALL	■		■
AC-110.1	REFLECTED CEILING PLAN FIRST FLOOR-INTERIOR			■
AC-111.1	REFLECTED CEILING PLAN FIRST FLOOR AREA 1-INTERIOR			■
AC-112.1	REFLECTED CEILING PLAN FIRST FLOOR AREA 2-INTERIOR			■
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AC-122.1	MEZZANINE LEVEL AREA 2 REFLECTED CEILING PLAN-INTERIOR			■
A-201	EXTERIOR ELEVATIONS	■		■
A-202	EXTERIOR ELEVATIONS	■		■
A-203	EXTERIOR ELEVATIONS	■		■
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A-214	MULTI-PURPOSE ROOM ELEVATIONS			■
A-215	ENTERTAINMENT BAR ELEVATIONS			■
A-216	ENTERTAINMENT BAR ELEVATIONS			■
A-217	POKER ROOM ELEVATIONS			■
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A-311	BUILDING SECTIONS	■		■
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A-422	ELEVATOR PLANS, ELEVATIONS, AND DETAILS			■
A-423	EXTERIOR STAIR PLANS	■		■
A-424	EXTERIOR STAIR SECTIONS	■		■
A-430	ENLARGED PLANS, ELEVATIONS AND DETAILS			■
A-431	CAGE DETAILS			■
A-432	ENLARGED CASINO BAR PLANS, ELEVATIONS, AND DETAILS			■
A-433	ENLARGED STANDING BAR PLANS, ELEVATIONS, AND DETAILS			■
A-434	ENLARGED BAR CANOPY PLANS AND DETAILS			■
A-435	STORAGE ROOM DETAIL PLAN			■
A-436	ADMISSION ENLARGED PLANS AND ELEVATIONS			■
A-531	INTERIOR PLAN DETAILS			■
A-532	INTERIOR PLAN DETAILS			■
A-560	DOOR SCHEDULE AND DETAILS			■
A-570	ALUMINUM FRAME AND GLAZING DETAILS			■
AF-100	INTERIOR FINISHES SCHEDULE			■
AF-111	FIRST FLOOR AREA 1 FINISH PLAN			■
AF-112	FIRST FLOOR AREA 2 FINISH PLAN			■
AF-122	SECOND FLOOR AREA 2 FINISH PLAN			■
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M-001	MECHANICAL SPECIFICATIONS	■		■
M-002	MECHANICAL SCHEDULES	■		■
M-003	MECHANICAL SCHEDULES	■		■
M-004	MECHANICAL DIAGRAMS	■		■
M-005	MECHANICAL DIAGRAMS	■		■
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M-007	MECHANICAL CONTROLS	■		■
M-008	MECHANICAL CONTROLS	■		■
M-100	MECHANICAL SITE PLAN			■
M-110	MECHANICAL FIRST FLOOR PLAN OVERALL	■		■
M-111	MECHANICAL FIRST FLOOR PLAN AREA 1			■
M-112	MECHANICAL FIRST FLOOR PLAN AREA 2	■		■
M-120	MECHANICAL SECOND FLOOR PLAN OVERALL	■		■
M-121	MECHANICAL SECOND FLOOR PLAN AREA 1	■		■
M-122	MECHANICAL SECOND FLOOR PLAN AREA 2	■		■
M-160	MECHANICAL OVERALL ROOF PLAN	■		■
M-161	MECHANICAL ROOF AREA 1	■		■
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M-210	MECHANICAL PIPING FIRST FLOOR PLAN OVERALL	■		■
M-211	MECHANICAL PIPING FIRST FLOOR PLAN AREA 1	■		■
M-212	MECHANICAL PIPING FIRST FLOOR PLAN AREA 2	■		■
M-220	MECHANICAL PIPING SECOND FLOOR PLAN OVERALL	■		■
M-221	MECHANICAL PIPING SECOND FLOOR PLAN AREA 1	■		■
M-222	MECHANICAL PIPING SECOND FLOOR PLAN AREA 2	■		■
M-260	MECHANICAL PIPING OVERALL ROOF PLAN	■		■
M-261	MECHANICAL PIPING ROOF AREA 1	■		■
M-262	MECHANICAL PIPING ROOF AREA 2	■		■
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E-001	GENERAL NOTES	■		■
E-002	SCHEDULES AND NOTES	■		■
E-003	ELECTRICAL DIAGRAMS	■		■
E-004	SINGLE LINE DIAGRAM	■		■
E-005	SINGLE LINE DIAGRAM	■		■
E-006	PANEL SCHEDULES	■		■
E-007	PANEL SCHEDULES	■		■
E-008	PANEL SCHEDULES	■		■
E-010	DIMMER SCHEDULES	■		■
E-011	LIGHTING FIXTURE SCHEDULE	■		■
E-100	ELECTRICAL SITE PLAN	■		■
E-110	FIRE FLOOR ELECTRICAL OVERVIEW PLAN	■		■
E-111	FIRST FLOOR POWER PLAN AREA 1	■		■
E-111M	FIRST FLOOR MECHANICAL POWER PLAN AREA 1	■		■
E-112	FIRST FLOOR POWER PLAN AREA 2	■		■
E-112M	FIRST FLOOR MECHANICAL POWER PLAN AREA 2	■		■
E-113	FIRST FLOOR POWER PLAN AREA 3	■		■
E-120	SECOND FLOOR ELECTRICAL OVERVIEW PLAN	■		■
E-122	SECOND FLOOR POWER PLAN AREA 2	■		■
E-122M	SECOND FLOOR MECHANICAL POWER PLAN AREA 2	■		■
EC-111	FIRST FLOOR LIGHTING PLAN AREA 1	■		■
EC-112	FIRST FLOOR LIGHTING PLAN AREA 2	■		■
EC-113	FIRST FLOOR LIGHTING PLAN AREA 3	■		■
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E-131	ELECTRICAL ROOF PLAN AREA 1	■		■
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FP113	FIRST FLOOR PLAN AREA 3 - FIRE PROTECTION	■		■
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FP121	SECOND FLOOR PLAN AREA 1 - FIRE PROTECTION	■		■
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P-002	PLUMBING SCHEDULES	■		■
P-003	PLUMBING DIAGRAMS	■		■
P-004	PLUMBING DIAGRAMS	■		■
P-100	PLUMBING SITE PLAN	■		■
P-110	PLUMBING FIRST FLOOR PLAN OVERALL - WASTE AND VENT	■		■
P-111	PLUMBING FIRST FLOOR AREA 1 - WASTE AND VENT	■		■
P-112	PLUMBING FIRST FLOOR AREA 2 - WASTE AND VENT	■		■
P-120	PLUMBING SECOND FLOOR PLAN OVERALL - WASTE AND VENT	■		■
P-121	PLUMBING SECOND FLOOR AREA 1 - WASTE AND VENT	■		■
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P-221	PLUMBING SECOND FLOOR AREA 1 - DOMESTIC WATER	■		■
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P-410	PLUMBING WASTE AND VENT ENLARGED PLANS	■		■
P-411	PLUMBING WATER AND GAS ENLARGED PLANS	■		■
PFS-101	PLUMBING ENLARGED WASTE & VENT PLAN - FOOD SERVICE	■		■
PFS-102	PLUMBING ENLARGED WASTE & VENT PLAN - FOOD SERVICE	■		■
PFS-103	PLUMBING ENLARGED WASTE & VENT PLAN - FOOD SERVICE	■		■
PFS-104	PLUMBING ENLARGED WTR & GAS PLAN - FOOD SERVICE	■		■
PFS-105	PLUMBING ENLARGED WTR & GAS PLAN - FOOD SERVICE	■		■
PFS-106	PLUMBING ENLARGED WTR & GAS PLAN - FOOD SERVICE	■		■
THEMING				
AV000	AUDIO/VISUAL SYMBOL LIST, SCHEDULES, DETAILS & GENERAL NOTES	■		■
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AV111.1	REFLECTED CEILING PLAN - FIRST FLOOR AREA 1 - A/V			■
AV112	1ST FLOOR AREA 2 - A/V	■		■
AV112.1	REFLECTED CEILING PLAN - FIRST FLOOR AREA 2 - A/V			■
AV122	2ND FLOOR AREA 2 - A/V	■		■
AV122.1	REFLECTED CEILING PLAN - MEZZANINE LEVEL AREA 2 - A/V			■
AV400	MULTI-PURPOSE GAMING - PARTIAL PLANS - A/V	■		■
AV401	ENTERTAINMENT BAR LOUNGE - PARTIAL FLOOR PLANS - A/V	■		■
LT001	LIGHTING SYMBOL LIST, SCHEDULES, DETAILS & GENERAL NOTES	■		■
LT002	SITE PLAN - LIGHTING	■		■
LT111	1ST FLOOR AREA 1 - LIGHTING	■		■
LT112	1ST FLOOR AREA 2 - LIGHTING	■		■
LT122	2ND FLOOR AREA 2 - LIGHTING	■		■
LT200	ELEVATIONS			■
LT201	ELEVATIONS			■
LT202	ELEVATIONS			■
LV001	LOW VOLTAGE SYMBOL LIST, SCHEDULES, DETAILS & GENERAL NOTES	■		■
LV111	1ST FLOOR AREA 1 - LOW VOLTAGE	■		■
LV112	1ST FLOOR AREA 2 - LOW VOLTAGE	■		■
LV113	1ST FLOOR - UNDER FLOOR CABLETRAY - LOW VOLTAGE	■		■
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FS108	FOODSERVICE EQUIPMENT PLUMBING CONNECTION PLAN	■		■
FS109	FOODSERVICE EQUIPMENT PLUMBING CONNECTION PLAN	■		■
FS110	FOODSERVICE EQUIPMENT CONNECTION SCHEDULES & NOTES	■		■
FS111	FOODSERVICE EQUIPMENT ELECTRICAL CONNECTION PLAN	■		■
FS112	FOODSERVICE EQUIPMENT ELECTRICAL CONNECTION PLAN	■		■
FS113	FOODSERVICE EQUIPMENT ELECTRICAL CONNECTION PLAN	■		■
FS114	FOODSERVICE EQUIPMENT BEVERAGE LINE RUN PLAN	■		■
FS115	FOODSERVICE EQUIPMENT VENTILATION PLAN	■		■
FS116	FOODSERVICE EQUIPMENT VENTILATION PLAN	■		■
FS117	FOODSERVICE EQUIPMENT VENTILATION PLAN	■		■
FS118	FOODSERVICE EQUIPMENT VENTILATION PLAN	■		■
FS119	FOODSERVICE EQUIPMENT VENTILATION PLAN	■		■
FS501	FOODSERVICE EQUIPMENT DETAILS	■		■
FS502	FOODSERVICE EQUIPMENT DETAILS	■		■
FS503	FOODSERVICE EQUIPMENT DETAILS	■		■
FS504	FOODSERVICE EQUIPMENT DETAILS	■		■
FS-101	FOODSERVICE EQUIPMENT ARRANGEMENT PLAN	■		■
FS-102	FOODSERVICE EQUIPMENT ARRANGEMENT PLAN	■		■
FS-103	FOODSERVICE EQUIPMENT ARRANGEMENT PLAN	■		■
FS-104	FOODSERVICE EQUIPMENT SPECIAL CONDITIONS PLAN	■		■
FS-105	FOODSERVICE EQUIPMENT SPECIAL CONDITIONS PLAN	■		■

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CHEROKEE HARD ROCK CASINO 4

PROJECT

CASINO 4

KEYMAP

No.	Description	Date

SHEET TITLE
SHEET INDEX

CONSTRUCTION SET

PROJECT NO 2017004
DRAWN BY: BLB
CHKD BY: Checker
ISSUE DATE: 5/4/2018

G-001

Scale

5/4/2018

5/4/2018 3:17:41 PM

CODE INFORMATION
BUILDING "B"

5. FIRE-RESISTANCE RATED REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601)

	TYPE
1. STRUCTURAL FRAME INCLUDING COLUMNS, GIRDERS, TRUSSES	2HR
2. BEARING WALLS	
(EXTERIOR)	2HR
(INTERIOR)	2HR
3. NONBEARING WALLS AND PARTITIONS (EXTERIOR)	TABLE 602
4. NONBEARING WALLS AND PARTITIONS (INTERIOR)	0 HR (5)
5. FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)	2HR
6. ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS	1HR

6. OCCUPANCY LOAD

OCCUPANT LOAD FIRST FLOOR	3,316
OCCUPANT LOAD SECOND FLOOR	719
OCCUPANT LOAD TOTAL FACILITY	4,035
EXIT CAPACITY FIRST FLOOR	6,346
EXIT CAPACITY SECOND FLOOR	1,122
EXIT CAPACITY TOTAL FACILITY	7,468

7.

MODIFICATION IBC SECTION	NONE

8. ACCESSIBLE BUILDING

DESIGNATED	YES
NON DESIGNATED	-

9. MINIMUM PLUMBING FIXTURE COUNT (IPC CHAPTER
(FOR EACH TYPE OF OCCUPANCY IN EACH SEPARATE BUILDING OR ENTIRE FACILITY)

ASSEMBLY (A-2)	REQUIRE	PROVIDE
WC	10	10
WC	10	10
LAVATORIE	4	4
DRINKING	-	-
SERVICE	1	1

ASSEMBLY (A-2) INTERTAINMENT	REQUIRE	PROVIDE
WC	6	6
WC	6	6
LAVATORIE	4	4
DRINKING	-	-
SERVICE	1	1

ASSEMBLY (A-2) MULTI-PURPOSE ROOM	REQUIRE	PROVIDE
WC	7	7
WC	7	7
LAVATORIE	3	3
DRINKING	-	-
SERVICE	1	1

ASSEMBLY (A-2) POKER	REQUIRE	PROVIDE
WC	5	5
WC	5	5
LAVATORIE	2	2
DRINKING	-	-
SERVICE	1	1

BUSINESS	REQUIRE	PROVIDE
WC	3	4
WC	3	4
LAVATORIE	3	3
DRINKING	-	-
SERVICE	1	1

TOTAL FACILITY	REQUIRE	PROVIDE
WC	31	33
WC	31	33
LAVATORIE	16	16
DRINKING	-	-
SERVICE	5	5

10. SPRINKLER

ENTIRE FAQLITY	YES
LIMITED	-
FULL SUPPRESSION	100 %
NOTIFICATION/ALARM	100 %
DETECTIO	100 %

11. CODES TO WHICH THIS PROJECT WAS

	DATE
INTERNATIONAL BUILDING	2015
INTERNATIONAL FIRE CODE (AS ADAPTED AND MODIFIED BY THE STATE OF OKLAHOMA THROUGH	2015
INTERNATIONAL MECHANICAL	2015
INTERNATIONAL PLUMBING	2015
INTERNATIONAL ELECTRICAL	2015
NFPA 70 (AS ADAPTED AND MODIFIED BY THE STATE OF OKLAHOMA THROUGH	2015
INTRNATIONAL ENERGY CONSERVATION CODE (AS ADAPTED AND MODIFIED BY THE STATE OF OKLAHOMA THROUGH	IECC-9
HEALTH CODE STATE OF	CURRENT
AMERICANS WITH DISABILITIES ACT	1990
ACCESSIBILITY ICC / ANSI A117.1	2003

12. THRESHOLD BUILDING

	YES

CODE INFORMATION
TOTAL FACILITY

DATE OF ORIGINAL CONSTRUCTION OF CASINO	NOVEMBER 22, 2011
DATE OF ADDITIONS	NONE

1. GROUP CLASSIFICATION (CHAPTER 3)

PRIMARY	ASSEMBLY (A-2)
INCIDENTAL	ASSEMBLY (A-2)
INCIDENTAL	BUSINESS
INCIDENTAL	STORAGE (S)

2. CONSTRUCTION TYPE (CHAPTER 6)

MINIMUM TYPE REQUIRED		1B
ACTUAL TYPE PROVIDED	EXISTING	1B
	NEW	1B

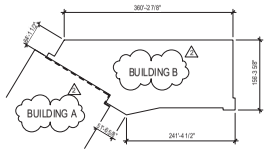
3. BUILDING HEIGHT (CHAPTER 5)

ALLOWABLE HEIGHT SPRINKLERED	12 STORIES/180 FEET
ACTUAL HEIGHT	1 STORIES/40 FEET
STORIES ABOVE	1 STORIES

4. BUILDING AREA (CHAPTER 5)

FIRST	
EXISTING CONSTRUCTION	45,069 SQ. FT.
NEW CONSTRUCTION	52,688 SQ. FT.
TOTAL FLOOR	97,691 SQ. FT.
MEZANIN	
EXISTING	21,192 SQ. FT.
NEW	13,364 SQ. FT.
TOTAL	34,468 SQ. FT.
TOTAL	132,122 SQ. FT.

BUILDING KEY PLAN FOR OPEN PERIMETER



PERIMETER KEY
OPEN
INACCESSIBLE

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918-935-5036

Cherokee Hard Rock Casino 4

PROJECT

CASINO 4

KEYPLAN

No.	Description	Date
2	ADDENDUM #2	05/04/2018

SHEET TITLE
CODE SUMMARY SHEET

CONSTRUCTION SET

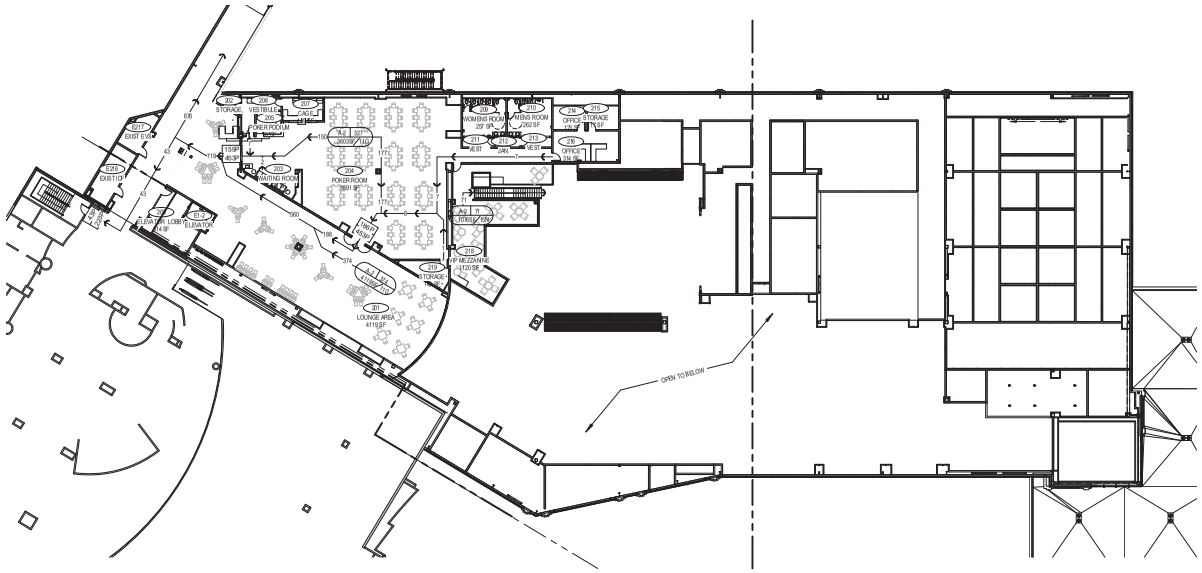
PROJECT NO. H170181
DRAWN BY: JEF
CHKD BY: JEF
ISSUE DATE: 5/4/2018

G-002

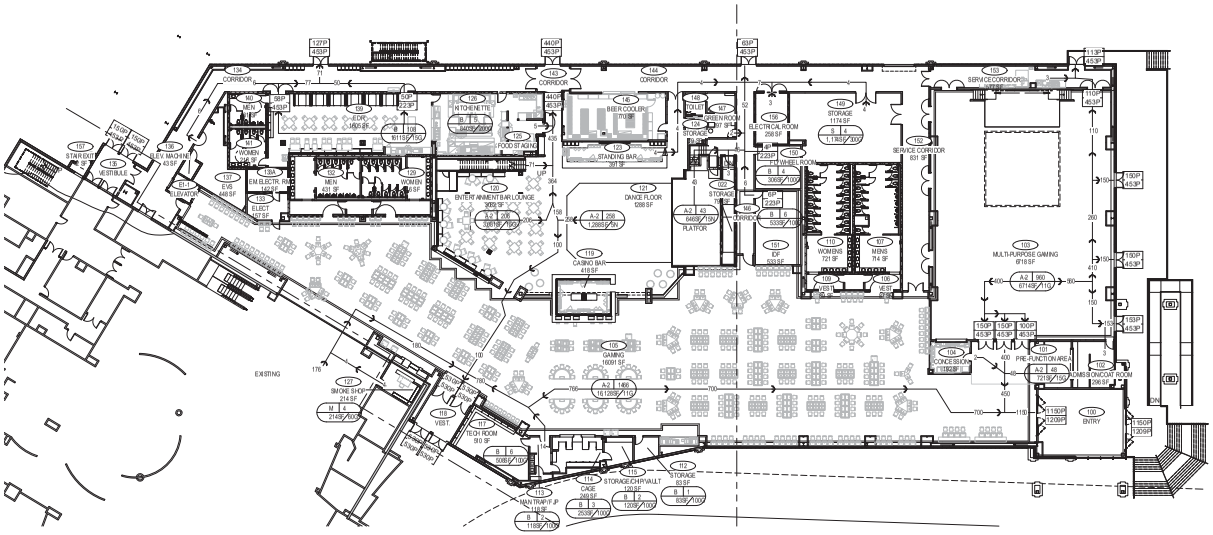
Scale 1/16" = 1'-0"

5/4/2018

5/3/2018 5:10:51 PM



2 EGRESS PLAN - LEVEL 2
1" = 20'-0"



1 EGRESS PLAN - LEVEL 1
1" = 20'-0"

CODE REFERENCE PLAN LEGEND

208 OFFICE	ROOM NAME & NUMBER
875 / 20 = 43P	ROOM OCCUPANCY LOAD AREA IN SQUARE FEET / OCCUPANCY LOAD FACTOR = ROOM OCCUPANCY LOAD (PEOPLE)
B 200 20,000 SF/100	USE GROUP / ALLOWABLE OCCUPANT LOAD AREA IN SQUARE FEET / LOAD FACTOR IN SQUARE FEET
	EXIT CAPACITY
9P 18SP	ACTUAL EGRESS OCCUPANCY OF DOOR / STAIR MAX. ALLOWABLE EGRESS OCCUPANCY OF DOOR OR STAIR OR RAMP
150 / 50	DIRECTION OF TRAVEL WITH ACCUMULATED OCCUPANCY LOAD
200' TD	MAXIMUM TRAVEL DISTANCE (T.D.) FROM FURTHEST POINT
	ACCESSIBLE AREA OF EXIT
	FLUSH CONDITION - 1/2" MAXIMUM ELEVATION CHANGE
	1 HOUR FIRE RATED WALL TIGHT TO DECK ABOVE (SMOKE TIGHT)
	2 HOUR FIRE RATED WALL TIGHT TO DECK ABOVE (SMOKE TIGHT)
	SMOKE TIGHT TO DECK ABOVE. SEAL AROUND ALL PENETRATIONS TO ACHIEVE SMOKE TIGHT CONSTRUCTION
F.E.(C)	FIRE EXTINGUISHER (CABINET)
AOR	AREA OF REFUGE
R	REQUIRED EXTERIOR EXIT

DOOR CLEAR EGRESS WIDTHS

CLEAR DOOR WIDTH / LOAD FACTOR = OCCUPANID LOAD
33.5 / .15 = 223

0P 223P	3'-0" DOOR (33 1/2" CLR.)
0P 266P	3'-6" DOOR (39" CLR.)
0P 303P	4'-0" DOOR (45" CLR.)
0P 336P	PAIR 3'-0" DOOR (68" CLR.)
0P 336P	PAIR 3'-6" DOOR (87" CLR.)
0P 613P	PAIR 4'-0" DOOR (92" CLR.)

TRAVEL DISTANCE + COMMON PATH

EDUCATION (E) AND ASSEMBLY (A) WITH SPRINKLER SYSTEM
- COMMON PATH OF EGRESS TRAVEL = 75'-0"
- TRAVEL DISTANCE = 250'-0"

BUSINESS (B) WITH SPRINKLER SYSTEM
- COMMON PATH OF EGRESS TRAVEL = 100'-0"
- TRAVEL DISTANCE = 300'-0"

STORAGE (S) WITH SPRINKLER SYSTEM
- COMMON PATH OF EGRESS TRAVEL = 100'-0"
- TRAVEL DISTANCE = 400'-0"

MAXIMUM FLOOR AREA PER OCCUPANT

EDUCATIONAL	
CLASSROOMS	20 NET
SHOPS AND OTHER VOCATIONAL	50 NET
ASSEMBLY	
CHAIRS ONLY	7 NET
TABLE AND CHAIRS	15 NET
STAGES AND PLATFORMS	15 NET
BUSINESS	100 GROSS
WARMING KITCHEN	200 GROSS
STORAGE AND MECHANICAL AREAS	300 GROSS

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PROJECT
Cherokee Hard Rock Casino 4

PROJECT
CASINO 4

KEYPLAN

No.	Description	Date

SHEET TITLE
LIFE SAFETY PLAN

CONSTRUCTION SET

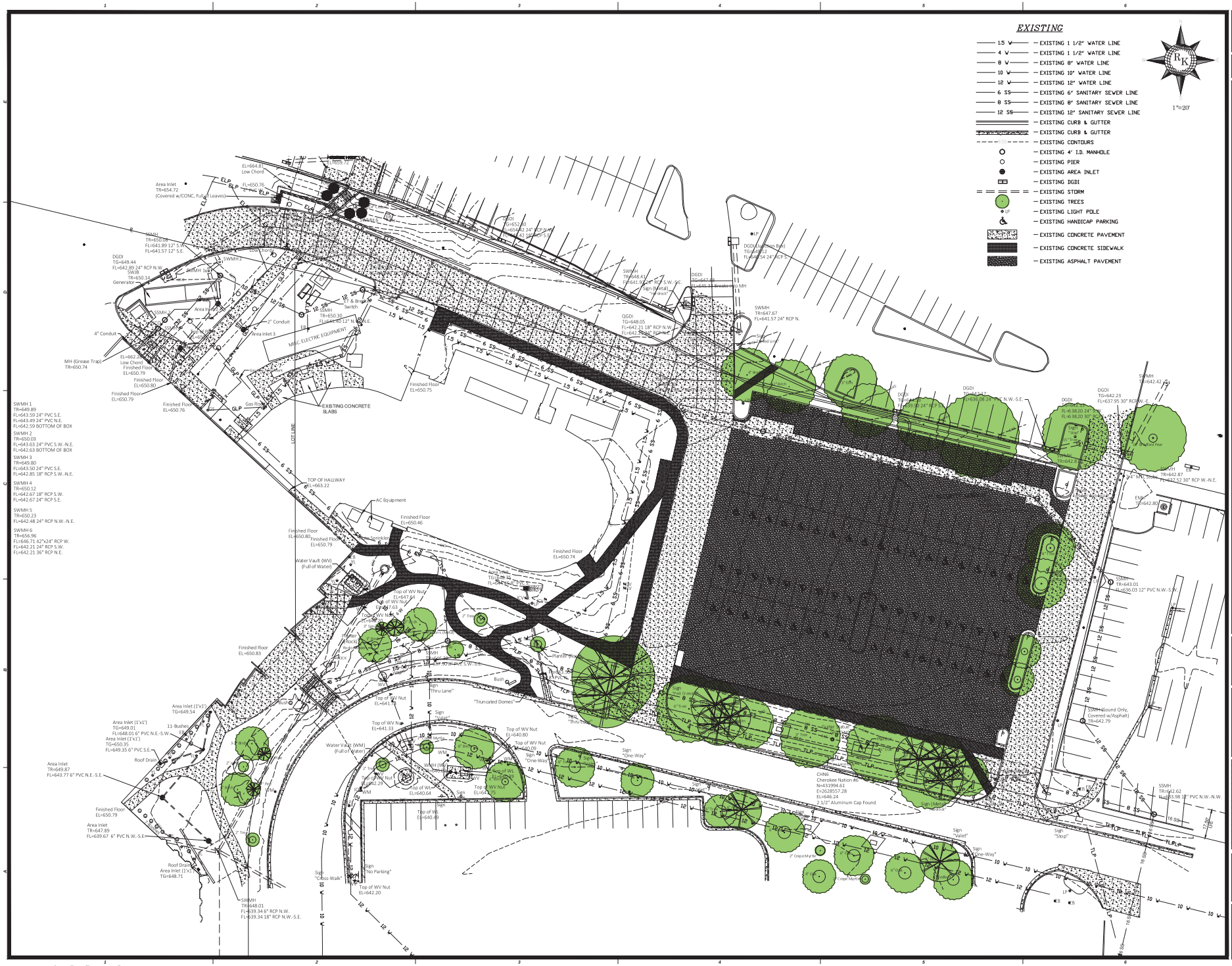
PROJECT NO. H170191
DRAWN BY: CEF
CHKD BY: CEF
ISSUE DATE: 5/4/2018

G-003

Scale As indicated

5/4/2018

5/3/2018 5:11:15 PM



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PROJECT
CHEROKEE HARD ROCK HOTEL AND CASINO

PROJECT
CASINO 4

KEY PLAN

No.	Description	Date

SHEET TITLE
SURVEY TOPO

CIVIL PACKAGE

PROJECT NO. 201704
DRAWN BY JK
CHECKED R.K.
DATE DATE: March 20, 2018

RICHARD L. KOSMAN 11234 REGISTERED PROFESSIONAL ENGINEER STATE OF OKLAHOMA

C-100

Scale

DEMOLITION NOTES:

1. CONTRACTOR SHALL ABIDE BY ALL TRIBAL, FEDERAL, STATE, AND LOCAL CODES FOR THE DEMOLITION AND DISPOSAL OF ALL MATERIALS.
2. OWNER, CONSTRUCTION MANAGER, ARCHITECT AND ENGINEERS SHALL NOT BE LIABLE FOR ANY DEMOLITION PROCEDURES, SCHEDULING, AND DISPOSAL OF ANY MATERIALS.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR TRAFFIC CONTROL ON THE NORTH, SOUTH AND EAST SIDES OF CONSTRUCTION AREA. TRAFFIC PLAN SHALL BE SUBMITTED TO OWNER FOR REVIEW AND APPROVAL.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL AND DISPOSING OF THE EXISTING SPRUNG BUILDING AND MATERIALS NOT NEEDED OFFSITE. ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING LOTS AND DRIVES, DRAINAGE, STRUCTURES, UTILITIES WATER, SEWER, STORM SEWER, ELECTRICAL, GAS, TELEPHONE, COMMUNICATIONS, SURVEILLANCE, ETC., UNDER THE PROPOSED NEW BUILDING STRUCTURE SHALL BE REMOVED AND TRENCHES BACKFILLED PER THE GEO-TECH REPORT. AFTER THE REMOVAL OF EXISTING GROUND, ASPHALT PAVEMENT AND ROCK THE SUBGRADE SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SELECT FILL AS DESCRIBED IN THE GEO-TECH REPORT.
5. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE DISCONNECTION, REMOVAL, AND RELOCATION OF ALL UTILITIES.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING EXISTING IRRIGATION SYSTEM IN THE AREAS OF PROPOSED IMPROVEMENTS. THE CONTRACTOR SHALL CAP THE EXISTING IRRIGATION SYSTEM TO REMAIN SUCH THAT THE REMAINING SYSTEM SHALL CONTINUE TO FUNCTION PROPERLY. THE IRRIGATION CONTRACTOR WILL INSTALL NEW LINES FOR THE NEW LANDSCAPING.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE DISCONNECTION OF UTILITY SERVICES TO THE EXISTING SPRUNG BUILDING PRIOR TO DEMOLITION.
8. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
9. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH WORK.
10. ELECTRICAL, TELEPHONE, CABLE, WATER, SEWER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PROVIDE NEW CONDUITS COMPLETE IN PLACE INCLUDING PULL WIRES FOR NEW ELECTRICAL SERVICE, TELEPHONE, CABLE, FIBER, COMMUNICATIONS, SURVEILLANCE AND ETC.
11. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC.
12. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO DEMOLITION.
13. CONTRACTOR MAY LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IT'S REMOVAL AND REPAIR.
14. CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. CLEAR AND FREE FROM ANY CONSTRUCTION ACTIVITY AND/OR MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO AND FROM THE SITE.
15. REMOVE & DELIVER TO OWNER:
    (a) EXISTING SIGNS AND SIGN POLES
    (b) EXISTING FENCING & GATES
    (c) EXISTING LIGHT POLES
    (d) GUITAR STATUES
    (e) EXISTING BOULDERS
    (f) EXISTING EXTERIOR LIGHTING
    (g) ALL OTHER ITEMS OWNER REQUIRING TO BE SAVED
16. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE. REPAIRS SHALL RESTORE DAMAGED ITEMS TO EQUAL OR BETTER THAN THE EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ALL EXISTING DAMAGE AND NOTIFYING CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION START.
17. ALL TRENCHES AND/OR EXCAVATED AREA SHALL BE FILLED AND TESTED IN ACCORDANCE WITH THE GEO-TECHNICAL ENGINEERING REPORT.

EXISTING

- 1.5 W — EXISTING 1 1/2" WATER LINE
- 8 W — EXISTING 8" WATER LINE
- 10 W — EXISTING 10" WATER LINE
- 12 W — EXISTING 12" WATER LINE
- 6 SS — EXISTING 6" SANITARY SEWER LINE
- 8 SS — EXISTING 8" SANITARY SEWER LINE
- 12 SS — EXISTING 12" SANITARY SEWER LINE
- EXISTING CURB & GUTTER
- EXISTING CURB & GUTTER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING PIER
- EXISTING AREA INLET

REMOVAL ITEMS

- 1.5 W — EXISTING 1 1/2" WATER LINE
- 4 W — EXISTING 4" WATER LINE
- 6 SS — EXISTING 6" SANITARY SEWER LINE
- 12 SS — EXISTING 12" SANITARY SEWER LINE
- EXISTING 6" CONCRETE CURB & GUTTER
- EXISTING AREA INLET
- EXISTING DGDI
- EXISTING STORM
- EXISTING SIDEWALK
- EXISTING CONCRETE PAVEMENT
- EXISTING PAVEMENT

1"=20'

ITEMS TO BE ADJUSTED TO NEW GRADE

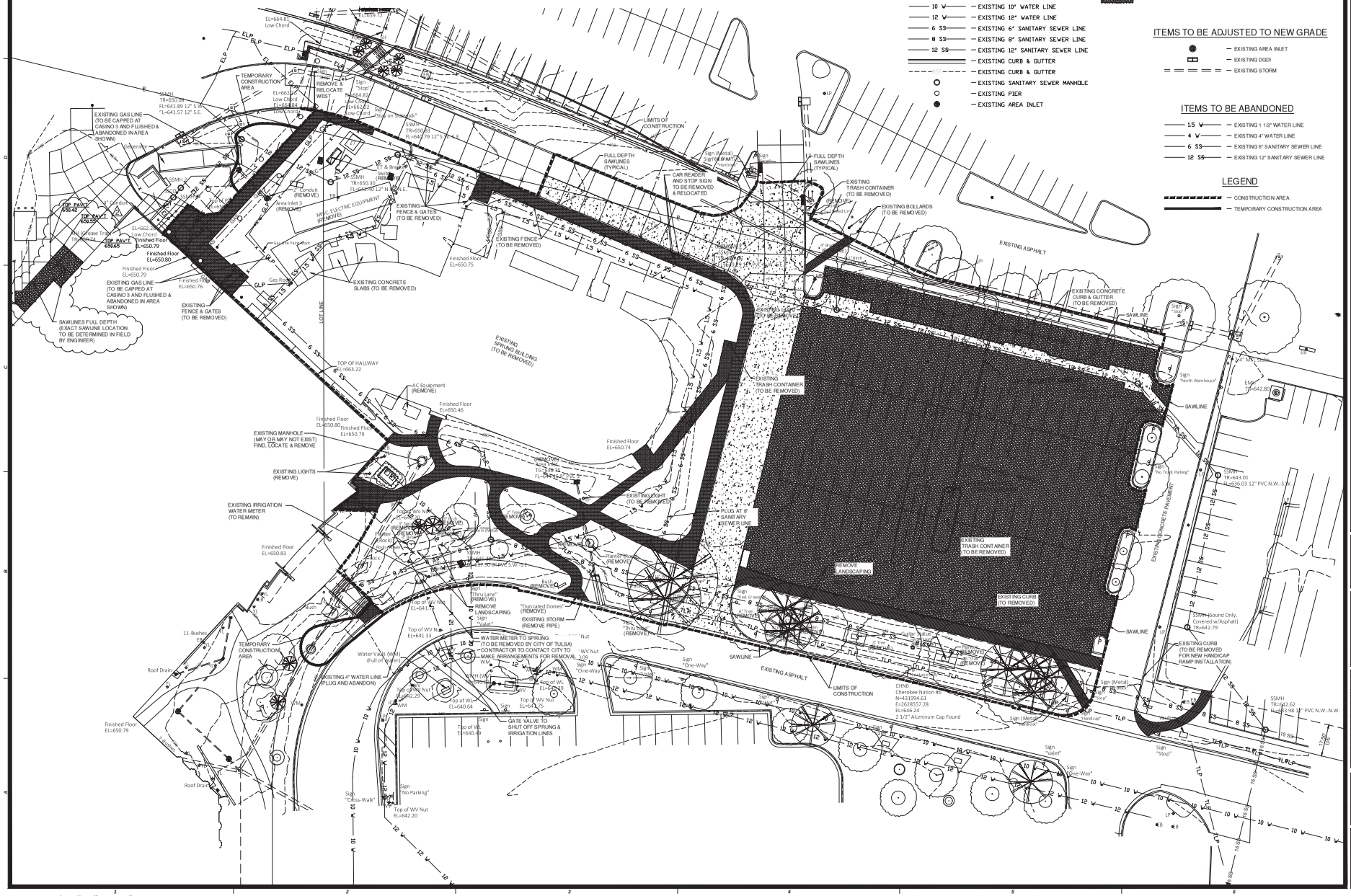
- EXISTING AREA INLET
- EXISTING DGDI
- EXISTING STORM

ITEMS TO BE ABANDONED

- 1.5 W — EXISTING 1 1/2" WATER LINE
- 4 W — EXISTING 4" WATER LINE
- 6 SS — EXISTING 6" SANITARY SEWER LINE
- 12 SS — EXISTING 12" SANITARY SEWER LINE

LEGEND

- CONSTRUCTION AREA
- TEMPORARY CONSTRUCTION AREA



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CHEROKEE HARD ROCK HOTEL AND CASINO

PROJECT

CASINO 4

CITY PLAN

No.	Description	Date
2	Addendum No. 2	05-04-2018

SHEET NO.

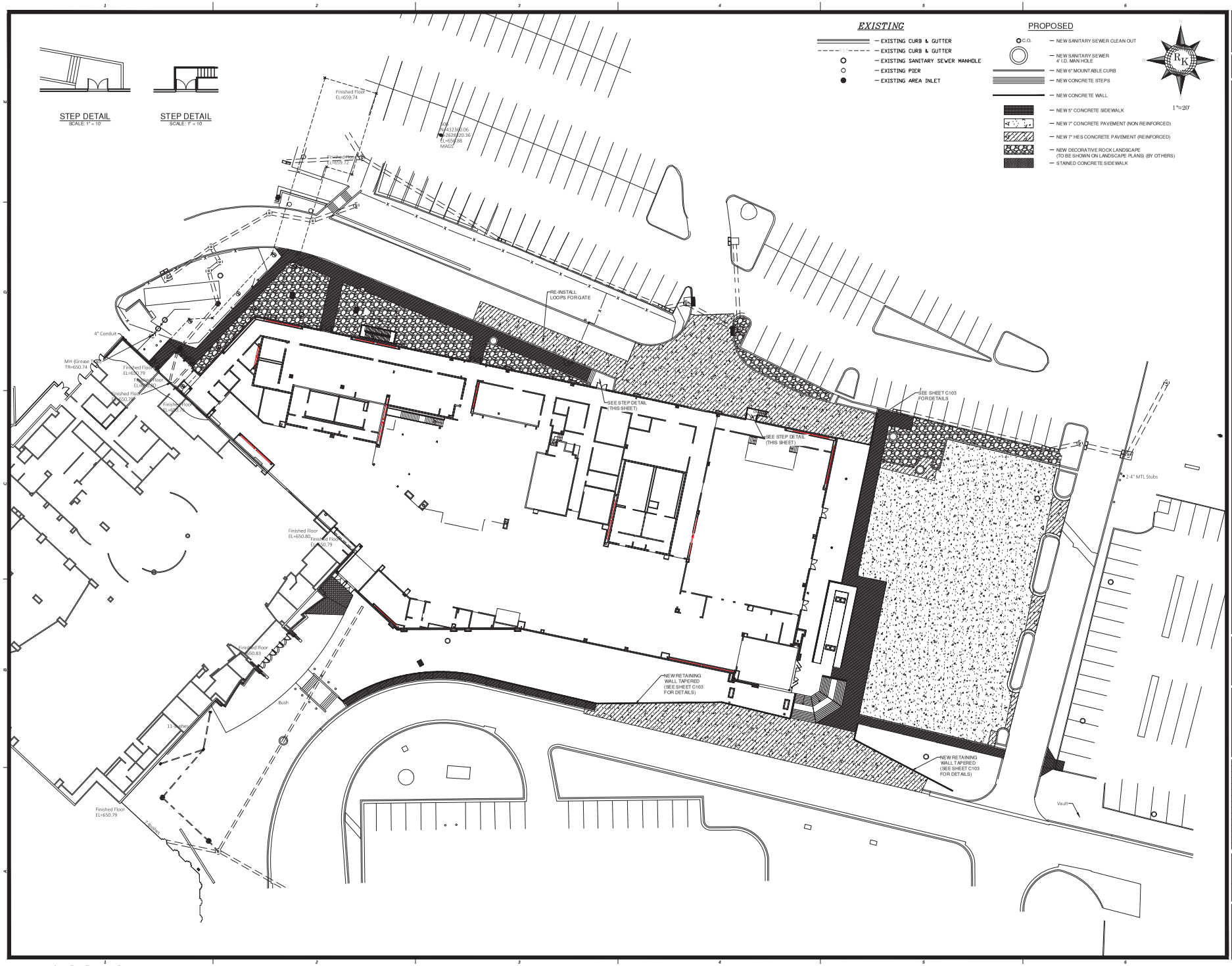
DEMOLITION PLAN

CIVIL PACKAGE

PROJECT NO.	201704
DRAWN BY:	J.K.
CHECKED:	R.K.
DATE:	March 20, 2018

C-101

Scale



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PROJECT
CHEROKEE HARD ROCK HOTEL AND CASINO

PROJECT
CASINO 4

KEY PLAN

No.	Description	Date

SHEET
PAVING PLAN

CIVIL PACKAGE

PROJECT NO	201704
DRAWN BY	J.K.
CHECKED	R.K.
DATE	March 20, 2018

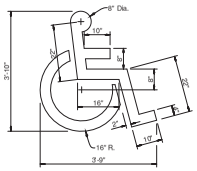
REGISTERED PROFESSIONAL ENGINEER RICHARD L. KOSMAN 11234 OKLAHOMA

C-102

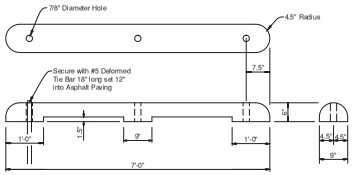
Scale

NOTE: Sign shall be placed at least 7 feet above grade. Sign post shall be 2 1/2" dia. sch 40 galvanized steel and set in concrete footing 12" dia. x 3'-0".

HANDICAP PARKING SIGN

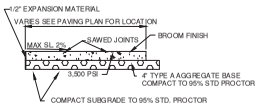


HANDICAP PAVEMENT MARKING DETAIL



CONCRETE BUMPER DETAIL (TYPICAL)

NOT TO SCALE

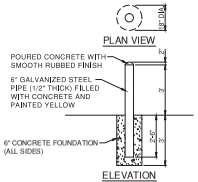


TYPICAL SECTION

NOT TO SCALE

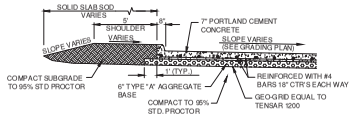
5" CONCRETE SIDEWALK

1. COST FOR NEW CONCRETE SIDEWALK SHALL INCLUDE ALL SAWING, COMPACTION OF SUBGRADE TO 95% STD. PROCTOR AND TYPE 'A' AGGREGATE BASE.
2. CONTRACTOR TO PROVIDE 1/2" EXP. MAT'L. AT BUILDING.
3. SEE STANDARD FOR RAMPS.
4. 1/2" EXPANSION JOINTS ARE TO BE INSTALLED AT LEAST EVERY 25'. THEY SHALL ALSO BE INSTALLED BETWEEN THE NEW SIDEWALK AND (A) CURBS, (B) INTERSECTING SIDEWALKS AND DRIVEWAYS, (C) STEPS, (D) RETAINING WALLS, (E) FIXED OBJECTS.
5. MAX. SLOPE 2%.
6. CONTRACTOR TO LAYOUT SIDEWALK JOINTS & GET APPROVAL FROM ARCHITECT & ENGINEER BEFORE SAW CUTTING BEGINS.
7. SAW JOINTS SHALL 1" DEEP SHALL BE CUT AS SOON AS POSSIBLE AFTER MEDIUM BROOM FINISH WORK IS COMPLETE AND CONCRETE HAS CURED TO ACCEPT TYPE OF SAW EQUIPMENT.
8. PROPORTION CONCRETE TO PRODUCE A STRENGTH OF 3,500 PSI AT 28 DAYS WITH MINIMUM CEMENT CONTENT OF 5 1/2 SACKS PER CU. YD. AND 5 TO 7 PERCENT ENTRAINED AIR, EXCEPT WHERE OTHERWISE INDICATED ON DRAWINGS.



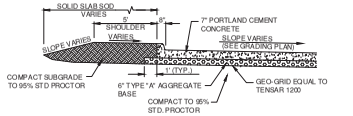
6" STEEL BOLLARD

SCALE: 1" = 3'



TYPICAL STEEL REINFORCED CONCRETE PAVEMENT SECTION

SCALE: 1" = 4

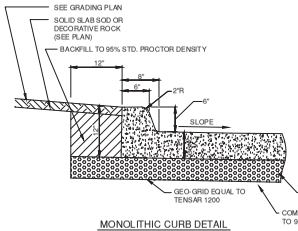


TYPICAL NON REINFORCED CONCRTE SECTION

SCALE: 1" = 4

NOTE:
USE HIGH EARLY STRENGTH CONCRETE FOR ALL CONCRETE PAVEMENT (NORTH OF CASINO 4).

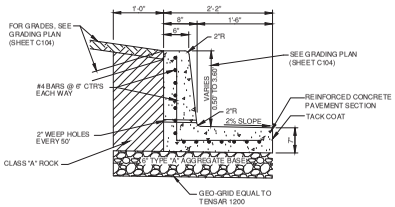
TRAFFIC TO LOADING DOOR
15 - 20 VEHICLES WEEK DAY
3 - 4 VEHICLES WEEKEND



MONOLITHIC CURB DETAIL

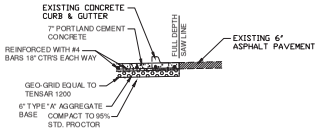
NOT TO SCALE

NOTE:
* CONTRACTOR TO REFER TO GRADING PLAN TO DRAIN TOWARD OR AWAY FROM CURB.



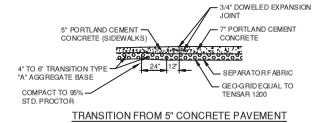
COMBINATION 7" REINFORCED CONCRETE PAVEMENT AND RETAINING WALL (WEST)

NOT TO SCALE



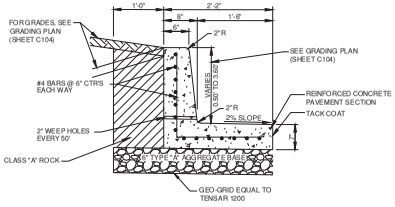
CONNECTION TO EXISTING ASPHALT PAVEMENT

SCALE: 1" = 4'



TRANSITION FROM 5" CONCRETE PAVEMENT TO 7" CONCRETE PAVEMENT

SCALE: 1" = 4'
(SEE JOINT DETAILS FOR LOCATIONS)



COMBINATION 7" REINFORCED CONCRETE PAVEMENT AND RETAINING WALL (EAST)

(SLOPE AWAY FROM CURB)
NOT TO SCALE

GRADING NOTES:

1. ALL GRADING AND EROSION CONTROL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND O.D.O.T. SPECIFICATIONS AND STANDARDS.
2. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS BEFORE EXCAVATING.
3. ALL EXISTING USABLE TOPSOIL (AS APPROVED BY THE OWNER'S TESTING LAB) SHALL BE STRIPPED AND STOCKPILED IN AN AREA APPROVED BY THE OWNER AND RESPREAD AS DIRECTED BY OWNER AFTER GRADING IS COMPLETED.
4. STRIPPING, PROOF ROLLING, SUBGRADE SCARIFICATION AND COMPACTION, AND FILL CONSTRUCTION FOR THE SITE, PAVING AREAS AND BUILDING SITE SHALL BE PERFORMED ACCORDING TO THE ODOT'S 2009 SPECIFICATIONS AND GEO-TECHNICAL REPORT.
5. CONTRACTOR SHALL PROVIDE WATER AS REQUIRED TO OBTAIN SPECIFIED COMPACTION REQUIREMENTS AND SHALL CONTACT THE CITY OF CATOOSA FOR METER PERMITS.
6. SUBGRADE STABILIZATION SHALL BE PER PLANS OR AS DIRECTED BY THE CONTRACTOR'S TESTING FIRM.
7. ENGINEER WILL NOT INTERPRET SOILS REPORTS OR ACCEPT RESPONSIBILITY FOR ALTERNATIVE METHODS PROPOSED BY THE CONTRACTOR.
8. ALL INDEPENDENT THIRD PARTY TESTING BY THE CONTRACTOR AND NOT THE OWNER.
9. UNDERCUTTING OF SOFT SPOTS AND PLACEMENT OF EARTHWORK IS GOVERNED BY THE GEO-TECHNICAL REPORT FOR THE SITE.
10. CORRECTIVE MEASURES DIRECTED BY THE ENGINEER MAY INCLUDE COMPLETE REMOVAL AND REPLACEMENT AT NO COST TO THE OWNER IN CASES OF POOR WORKMANSHIP OR UNSATISFACTORY IN-PLACE CONDITIONS.
11. SITE GRADING SHALL NOT PROCEED UNTIL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
12. ALL UNSURFACED AREAS DISTURBED BY GRADING OR FILLING OPERATIONS SHALL RECEIVE 7" OF TOPSOIL TO FINAL GRADE. THE TOPSOIL SHALL BE WATER FLOODED, DRIED AND PROOF-ROLLED PRIOR TO PLACEMENT OF SOLID SLAB SOD.
13. THE CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS THROUGHOUT ALL PHASES OF CONSTRUCTION.

GENERAL NOTES:

1. ALL GRADING, PAVING, STORM SEWER, WATER, SANITARY, AND UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE OKLAHOMA DEPARTMENT OF TRANSPORTATION 2009 STANDARD SPECIFICATIONS & STANDARDS. ALL CONSTRUCTION TESTING SHALL BE IN ACCORDANCE WITH OKLAHOMA DEPARTMENT OF TRANSPORTATION (O.D.O.T.) 2009 MATERIAL AND TESTING e-Guide, FIELD SAMPLING, TESTING AND ACCEPTED GUIDES. GRADING & COMPACTION & ANY SELECT MATERIAL FOR THE BUILDING SHALL BE PER THE GEO-TECHNICAL REPORT.
2. PHYSICAL TESTING FOR QUALITY ASSURANCE AND WATERLINE AND SANITARY CONSTRUCTION SHALL ALSO MEET OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY TITLE 252, CHAPTER 626 "PUBLIC WATER SUPPLY CONSTRUCT STANDARDS" AND TITLE 252, CHAPTER 656 " WATER POLLUTION CONTROL FACILITY CONSTRUCTION STANDARDS." ALL INDEPENDENT THIRD PARTY TESTING BY THE CONTRACTOR AND NOT THE OWNER.
3. PHYSICAL TESTING FOR QUALITY ASSURANCE INCLUDING BUT NOT LIMITED TO. WATER PRESSURE TESTING AND DISINFECTION OF WATER MAINS AS REQUIRED SHALL BE THE RESPONSIBILITY OF A INDEPENDENT THIRD PARTY TESTING, BY THE CONTRACTOR AND NOT THE OWNER. PRESSURE/LEAKAGE TESTING PER AWWA-C-601 AND DISINFECTION PER AWWA-C-651. SEWER CONTRACTOR WILL BE REQUIRED TO VACUUM TEST ALL MANHOLES ACCORDING TO ASTM C2244-11(2017) AND CONDUCT HYDROSTATIC LEAKAGE OF THE LINES PER ASTM F1417-11A(2015).
4. CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF THE OKLAHOMA 'ONE-CALL SYSTEM INC.' NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS OR LATER THAN 72 HOURS (EXCLUDING SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS), PRIOR TO COMMENCEMENT OF WORK. PHONE 1-800-522-6543.
5. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESES DRAWINGS AND WE ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF THEIR DEPICTED LOCATION ON THESE DRAWINGS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN, AND ALL OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE DRAWINGS BY VERIFICATION OF THEIR LOCATION IN THE FIELD PRIOR TO THE INITIATION OF THE ACTUAL PORTION OF THEIR WORK.
6. ALL CONSTRUCTION STAKING SHALL BE PERFORMED BY LICENSED SURVEYOR. ELECTRONIC DATA WILL BE MADE AVAILABLE TO THE SURVEYOR FOR HIS USE.
7. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE TRIBAL, FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH, AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTIONS ON HIS OWN RESPONSIBILITY OR AS THE ENGINEER MANY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF THE WORK COVERED BY THE CONTRACT. THE CONTRACTOR SHALL COMPLY WITH THE LATEST OSHA REGULATIONS.
8. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS REQUIRED.
9. ALL DIMENSIONS SHALL BE COORDINATED WITH ENGINEER. AN ELECTRONIC FORMAT WILL BE AVAILABLE TO SURVEYOR.
10. THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A DISCREPANCY OR INCONSISTENCY IS IDENTIFIED ON THE PLANS AND/OR SPECIFICATIONS IMMEDIATELY.
11. CONTRACTOR SHALL KEEP ON SITE A CURRENT SET OF THE APPROVED CONSTRUCTION WORKING DRAWINGS AT ALL TIMES. THE CONTRACTOR SHALL MARK (IN RED) ALL APPROVED CHANGES INCURRED FOLLOWING APPROVAL OF THE INITIAL DRAWINGS. THESE CHANGES MAY BE INITIATED FROM FIELD CONDITIONS OR CHANGES MADE BY THE DESIGN ENGINEER. EXCEPT FOR MINOR FIELD ADJUSTMENTS, ALL CHANGES SHALL BE REVIEWED AND AGREED TO BY THE DESIGN ENGINEER PRIOR TO FINAL APPROVAL OF THE PROJECT. THE CONTRACTOR SHALL SUBMIT THE WORKING DRAWINGS TO THE DESIGN ENGINEER AFTER FINAL INSPECTION OF THE PROJECT TO SERVE AS A BASIS FOR DEVELOPMENT OF THE FINAL AS-BUILT RECORD DRAWINGS.

SITE NOTES:

1. THE WORK AND MATERIAL SHALL COMPLY WITH ALL TRIBAL/CITY/COUNTY/STATE FEDERAL REGULATIONS CODES AND OSHA STANDARDS.
2. CONTRACTOR SHALL COORDINATE PLANS AND REFER TO STRUCTURAL & BUILDING PLANS AS NEEDED.
3. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PROJECT SPECIFICATIONS
4. ALL CURB/SIDEWALK/VAN HANDICAP CONSTRUCTION SHALL CONFORM TO FEDERAL ADA STANDARDS OR LOCAL CODES, WHICHEVER IS MORE RESTRICTIVE.
5. CONTRACTOR SHALL ENSURE ALL NECESSARY PERMITS ARE OBTAINED PRIOR TO CONSTRUCTION START.
6. CONTRACTOR SHALL MATCH THE PROPOSED DRIVEWAYS AND PARKING LOT TO THE EXISTING ASPHALT ROADWAY PAVEMENT.

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7645 E. 63rd St.
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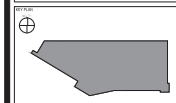
918-835-3030

PROJECT: CHEROKEE HARD ROCK HOTEL AND CASINO

PROJECT: CASINO 4



No.	Description	Date

SHEET TITLE: TYPICAL SECTIONS AND NOTES

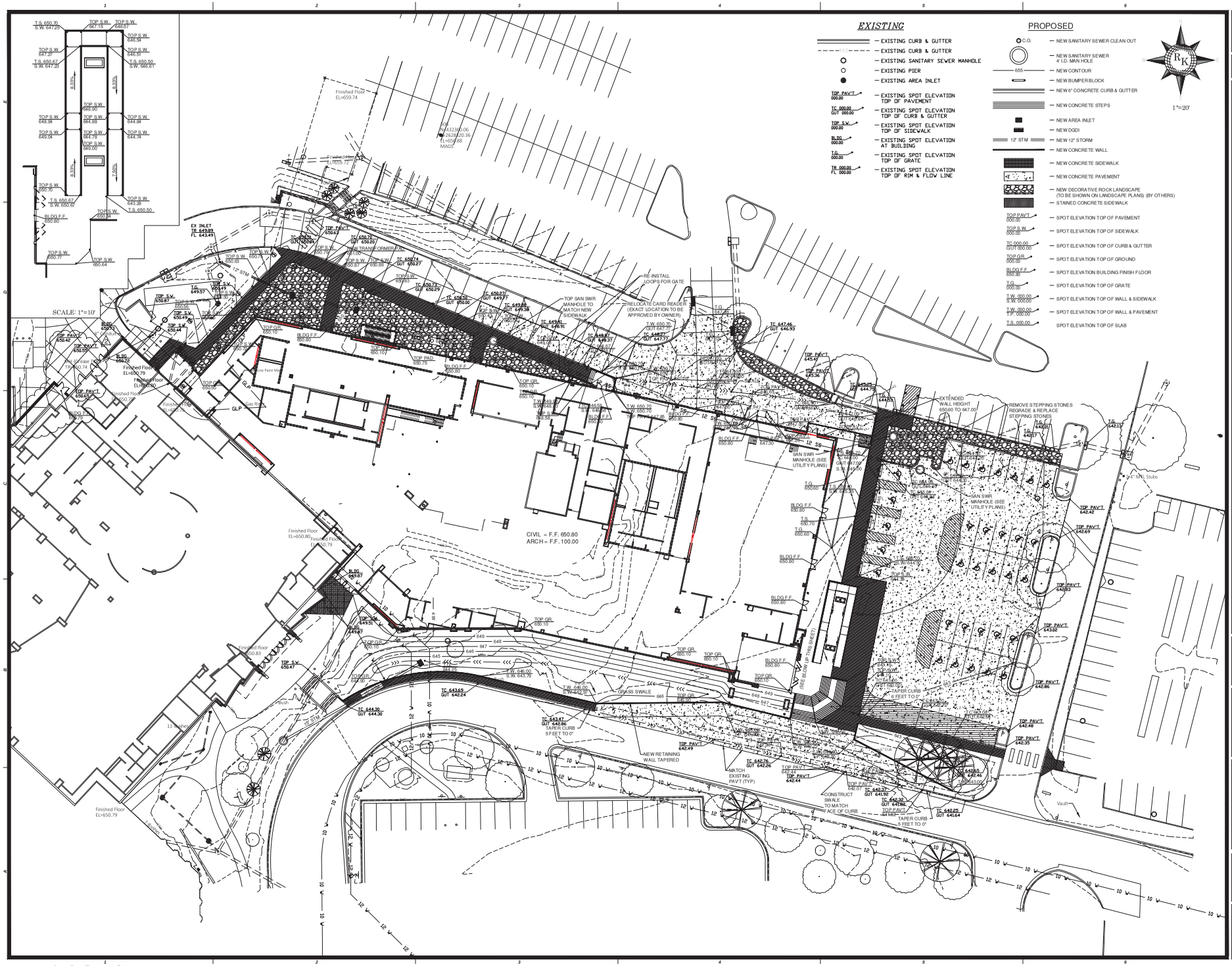
CIVIL PACKAGE

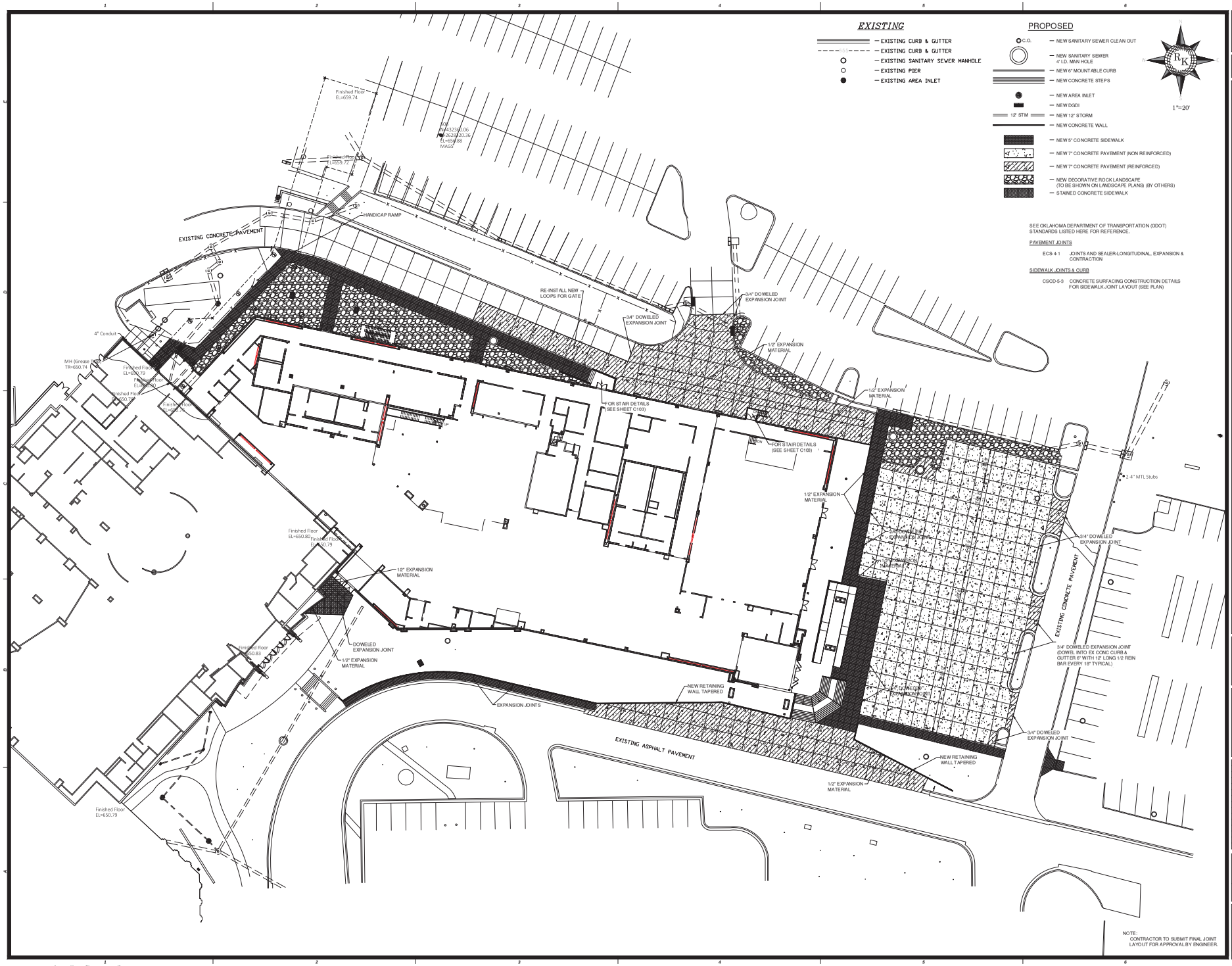
PROJECT NO	201704
DRAWN BY	J.K.
CHECKED	R.K.
DATE	March 20, 2018

C-103

Scale

REGISTERED PROFESSIONAL ENGINEER RICHARD L. KOSMAN 11234 OKLAHOMA


EXISTING
— EXISTING CURB & GUTTER
— EXISTING CURB & GUTTER
— EXISTING SANITARY SEWER MANHOLE
— EXISTING PIER
— EXISTING AREA INLET
— EXISTING SPOT ELEVATION TOP OF PAVEMENT
— EXISTING SPOT ELEVATION TOP OF CURB & GUTTER
— EXISTING SPOT ELEVATION TOP OF SIDEWALK
— EXISTING SPOT ELEVATION AT BUILDING
— EXISTING SPOT ELEVATION TOP OF GRATE
— EXISTING SPOT ELEVATION TOP OF RIM & FLOW LINE
PROPOSED
— NEW SANITARY SEWER CLEAN OUT
— NEW SANITARY SEWER 4' I.D. MAN HOLE
— NEW CONTOUR
— NEW BUMPER BLOCK
— NEW 6" CONCRETE CURB & GUTTER
— NEW CONCRETE STEPS
— NEW AREA INLET
— NEW DGDI
— NEW 12" STORM
— NEW CONCRETE WALL
— NEW CONCRETE SIDEWALK
— NEW CONCRETE PAVEMENT
— NEW DECORATIVE ROCK LANDSCAPE (TO BE SHOWN ON LANDSCAPE PLANS) (BY OTHERS)
— STAINED CONCRETE SIDEWALK
— SPOT ELEVATION TOP OF PAVEMENT
— SPOT ELEVATION TOP OF SIDEWALK
— SPOT ELEVATION TOP OF CURB & GUTTER
— SPOT ELEVATION TOP OF GROUND
— SPOT ELEVATION BUILDING FINISH FLOOR
— SPOT ELEVATION TOP OF GRATE
— SPOT ELEVATION TOP OF WALL & SIDEWALK
— SPOT ELEVATION TOP OF WALL & PAVEMENT
SPOT ELEVATION TOP OF SLAB
1"=20'
SCALE: 1"=10'
CIVIL = F.F. 650.80
ARCH = F.F. 100.00
RE-INSTALL LOOPS FOR GATE
RELOCATE CARD READER (EXACT LOCATION TO BE APPROVED BY OWNER)
TOP SAN SWR MANHOLE TO MATCH NEW SIDEWALK
EXTENDED WALL HEIGHT 650.60 TO 647.00
REMOVE STEPPING STONES REGRADE & REPLACE STEPPING STONES
SAN SWR MANHOLE (SEE UTILITY PLANS)
GRASS SWALE
NEW RETAINING WALL TAPERED
MATCH EXISTING PAVT (TYP)
CONSTRUCT SWALE TO MATCH FACE OF CURB
TAPER CURB 5 FEET TO 0"
RISE & SLOPE UP THIS SHEET
Finished Floor EL=650.79
Finished Floor EL=650.80
Finished Floor EL=659.74
EX INLET TR 645.89 FL 643.49
BLDG F.F. 650.80
BLDG 650.87
BLDG 649.87
BLDG 650.72
BLDG 650.53
TC 643.69 GUT 642.24
TC 644.30 GUT 644.30
TC 643.47 GUT 642.86
TC 642.76 GUT 642.26
TC 642.25 GUT 641.64
TC 642.97 GUT 641.97
TC 642.30 GUT 641.80
TC 642.46 GUT 641.96
TC 642.46 GUT 641.96
TC 642.46 GUT 641.96



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PROJECT
CHEROKEE HARD ROCK HOTEL AND CASINO

PROJECT
CASINO 4

SITE PLAN

No.	Description	Date

SHEET
JOINT LAYOUT PLAN

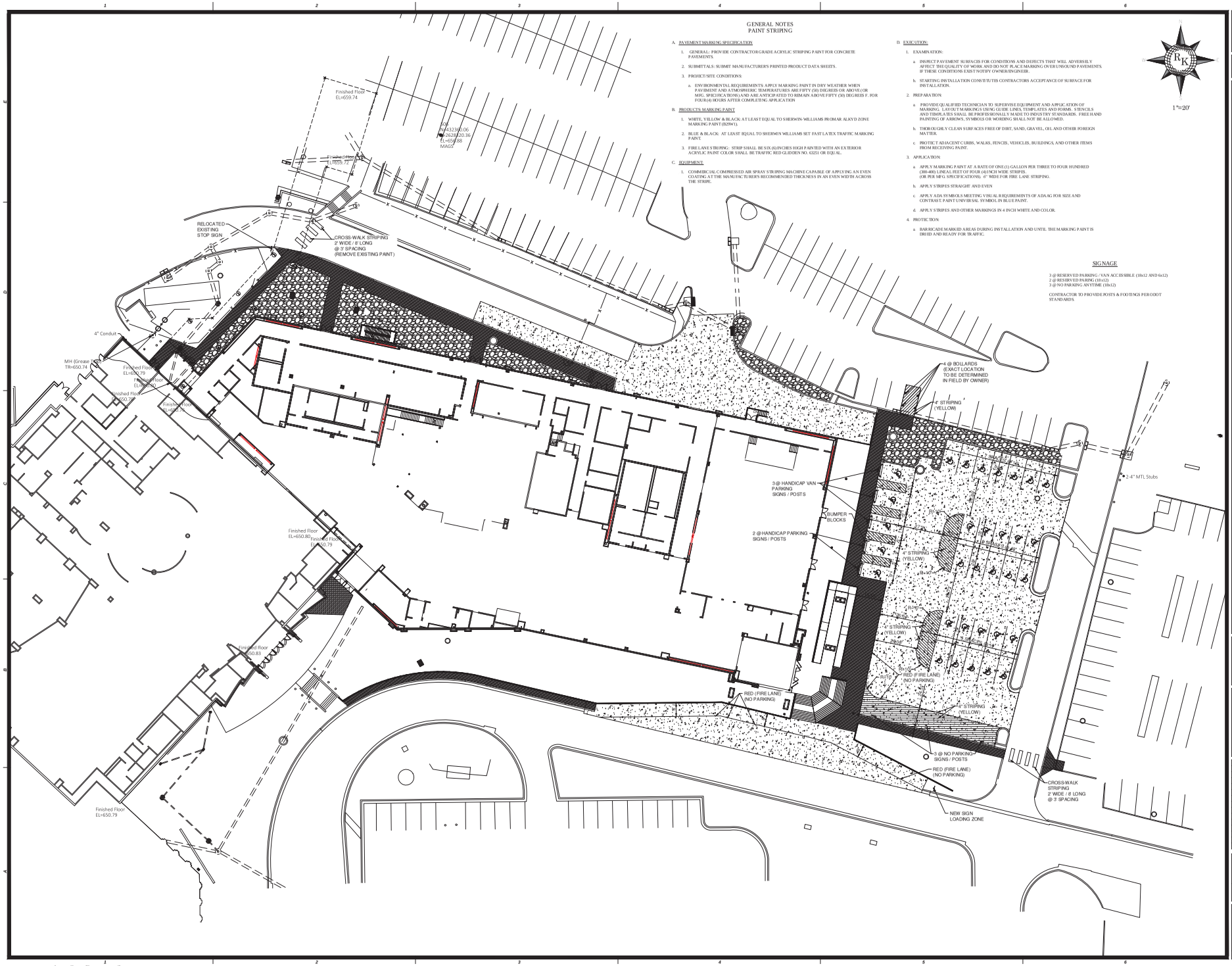
CIVIL PACKAGE

PROJECT NO. 201704
DRAWN BY: J.K.
CHECKED: R.K.
DATE: March 20, 2018

REGISTERED PROFESSIONAL ENGINEER RICHARD L. KOSMAN 11234 OKLAHOMA

C-105

Scale



GENERAL NOTES
PAINT STRIPING

A. PAVEMENT MARKING SPECIFICATION

1. GENERAL: PROVIDE CONTRACTOR GRADE ACRYLIC STRIPPING PAINT FOR CONCRETE PAVEMENTS.
2. SUBMITTALS: SUBMIT MANUFACTURER'S PRINTED PRODUCT DATA SHEETS.
3. PROJECT/SITE CONDITIONS:
   a. ENVIRONMENTAL REQUIREMENTS: APPLY MARKING PAINT IN DRY WEATHER WHEN PAVEMENT AND ATMOSPHERIC TEMPERATURES ARE FIFTY (50) DEGREES OR ABOVE (OR MFG. SPECIFICATIONS) AND ARE ANTICIPATED TO REMAIN ABOVE FIFTY (50) DEGREES F. FOR FOUR (4) HOURS AFTER COMPLETING APPLICATION

B. PRODUCTS: MARKING PAINT

1. WHITE, YELLOW & BLACK: AT LEAST EQUAL TO SHERWIN-WILLIAMS PROMAR ALKYD ZONE MARKING PAINT (B29W1).
2. BLUE & BLACK: AT LEAST EQUAL TO SHERWIN WILLIAMS SET FAST LATEX TRAFFIC MARKING PAINT.
3. FIRE LANE STRIPING: STRIP SHALL BE SIX (6) INCHES HIGH PAINTED WITH AN EXTERIOR ACRYLIC PAINT COLOR SHALL BE TRAFFIC RED GLIDDEN NO. 63251 OR EQUAL.

C. EQUIPMENT:

1. COMMERCIAL COMPRESSED AIR SPRAY STRIPING MACHINE CAPABLE OF APPLYING AN EVEN COATING AT THE MANUFACTURER'S RECOMMENDED THICKNESS IN AN EVEN WIDTH ACROSS THE STRIPE.

D. EXECUTION:

1. EXAMINATION:
   a. INSPECT PAVEMENT SURFACES FOR CONDITIONS AND DEFECTS THAT WILL ADVERSELY AFFECT THE QUALITY OF WORK AND DO NOT PLACE MARKING OVER UNSOUND PAVEMENTS. IF THESE CONDITIONS EXIST NOTIFY OWNER/ENGINEER.
   b. STARTING INSTALLATION CONSTITUTES CONTRACTORS ACCEPTANCE OF SURFACE FOR INSTALLATION.
2. PREPARATION:
   a. PROVIDE QUALIFIED TECHNICIAN TO SUPERVISE EQUIPMENT AND APPLICATION OF MARKING. LAYOUT MARKINGS USING GUIDE LINES, TEMPLATES AND FORMS. STENCILS AND TEMPLATES SHALL BE PROFESSIONALLY MADE TO INDUSTRY STANDARDS. FREE HAND PAINTING OF ARROWS, SYMBOLS OR WORDING SHALL NOT BE ALLOWED.
   b. THOROUGHLY CLEAN SURFACES FREE OF DIRT, SAND, GRAVEL, OIL AND OTHER FOREIGN MATTER.
   c. PROTECT ADJACENT CURBS, WALKS, FENCES, VEHICLES, BUILDINGS, AND OTHER ITEMS FROM RECEIVING PAINT.
3. APPLICATION:
   a. APPLY MARKING PAINT AT A RATE OF ONE (1) GALLON PER THREE TO FOUR HUNDRED (300-400) LINEAL FEET OF FOUR (4) INCH WIDE STRIPES. (OR PER MFG. SPECIFICATIONS). 6" WIDE FOR FIRE LANE STRIPING.
   b. APPLY STRIPES STRAIGHT AND EVEN
   c. APPLY ADA SYMBOLS MEETING VISUAL REQUIREMENTS OF ADAAG FOR SIZE AND CONTRAST. PAINT UNIVERSAL SYMBOL IN BLUE PAINT.
   d. APPLY STRIPES AND OTHER MARKINGS IN 4 INCH WHITE AND COLOR.
4. PROTECTION:
   a. BARRICADE MARKED AREAS DURING INSTALLATION AND UNTIL THE MARKING PAINT IS DRIED AND READY FOR TRAFFIC.

SIGNAGE

3 @ RESERVED PARKING / VAN ACCESSIBLE (18x12 AND 6x12)
2 @ RESERVED PARKING (18x12)
3 @ NO PARKING ANYTIME (18x12)

CONTRACTOR TO PROVIDE POSTS & FOOTINGS PER ODOT STANDARDS.

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PROJECT
CHEROKEE HARD ROCK HOTEL AND CASINO

PROJECT
CASINO 4

KEY PLAN

No.	Description	Date

SHEET TITLE
STRIPING PLAN

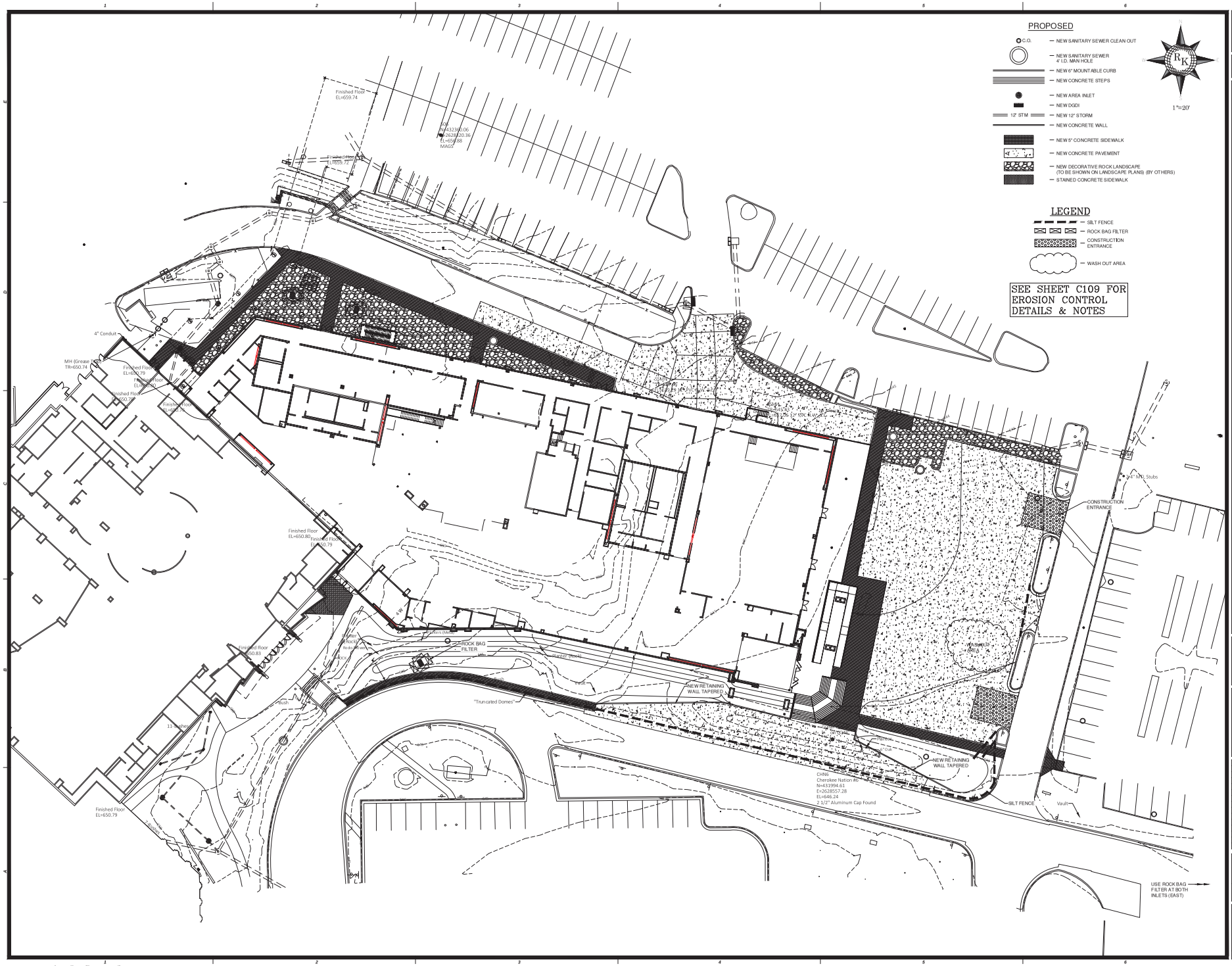
CIVIL PACKAGE

PROJECT NO	201704
DRAWN BY	J.K.
CHECKED	R.K.
DATE	March 20, 2018

C-106

Scale

REGISTERED PROFESSIONAL ENGINEER RICHARD L. KOSMAN 11234 OKLAHOMA



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PROJECT
CHEROKEE HARD ROCK HOTEL AND CASINO

PROJECT
CASINO 4

SITE PLAN

No.	Description	Date

SHEET TITLE
SOIL EROSION CONTROL PLAN

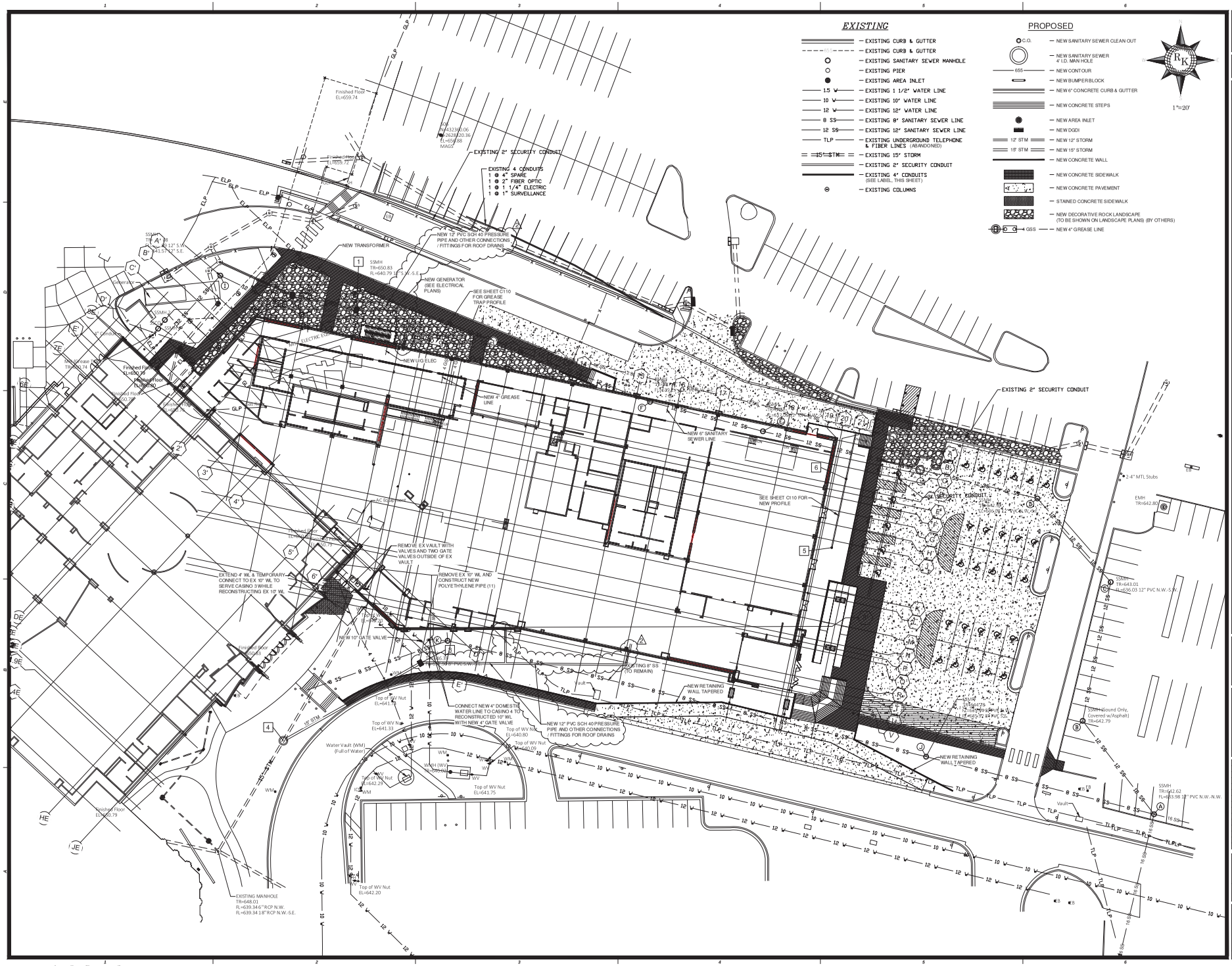
CIVIL PACKAGE

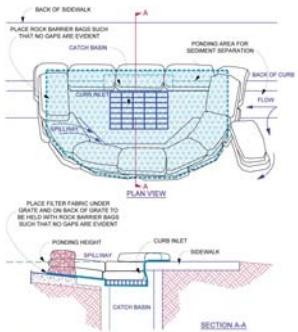
PROJECT NO	201704
DRAWN BY	J.K.
CHECKED	R.K.
DATE/TIME	March 20, 2018

REGISTERED PROFESSIONAL ENGINEER RICHARD L. KOSMAN 11234 OKLAHOMA

C-107

Scale

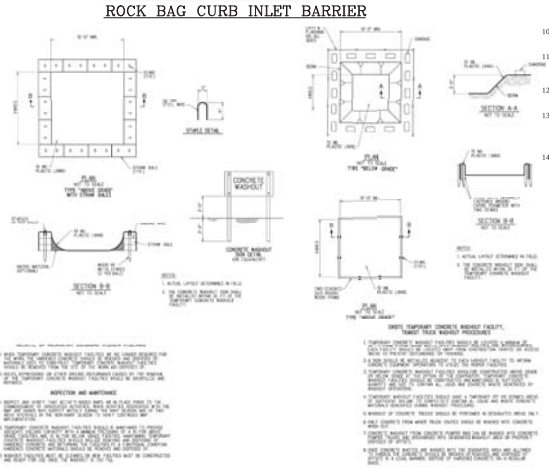

EXISTING
EXISTING CURB & GUTTER
EXISTING CURB & GUTTER
EXISTING SANITARY SEWER MANHOLE
EXISTING PIER
EXISTING AREA INLET
EXISTING 1 1/2" WATER LINE
EXISTING 10" WATER LINE
EXISTING 12" WATER LINE
EXISTING 8" SANITARY SEWER LINE
EXISTING 12" SANITARY SEWER LINE
EXISTING UNDERGROUND TELEPHONE & FIBER LINES (ABANDONED)
EXISTING 15" STORM
EXISTING 2" SECURITY CONDUIT
EXISTING 4" CONDUITS (SEE LABEL, THIS SHEET)
EXISTING COLUMNS
PROPOSED
NEW SANITARY SEWER CLEAN OUT
NEW SANITARY SEWER 4' I.D. MAN HOLE
NEW CONTOUR
NEW BUMPER BLOCK
NEW 6" CONCRETE CURB & GUTTER
NEW CONCRETE STEPS
NEW AREA INLET
NEW DGDI
NEW 12" STORM
NEW 15" STORM
NEW CONCRETE WALL
NEW CONCRETE SIDEWALK
NEW CONCRETE PAVEMENT
STAINED CONCRETE SIDEWALK
NEW DECORATIVE ROCK LANDSCAPE (TO BE SHOWN ON LANDSCAPE PLANS) (BY OTHERS)
NEW 4" GREASE LINE
1"=20'
EXISTING 2" SECURITY CONDUIT
EXISTING 4 CONDUITS
1 @ 4" SPARE
1 @ 2" FIBER OPTIC
1 @ 1 1/4" ELECTRIC
1 @ 1" SURVELLANCE
NEW TRANSFORMER
NEW GENERATOR (SEE ELECTRICAL PLANS)
SEE SHEET C110 FOR GREASE TRAP PROFILE
NEW 12" PVC SCH 40 PRESSURE PIPE AND OTHER CONNECTIONS / FITTINGS FOR ROOF DRAINS
NEW UG ELEC
NEW 4" GREASE LINE
NEW 8" SANITARY SEWER LINE
SEE SHEET C110 FOR NEW PROFILE
REMOVE EX VAULT WITH VALVES AND TWO GATE VALVES OUTSIDE OF EX VAULT
REMOVE EX 10" WL AND CONSTRUCT NEW POLYETHYLENE PIPE (11)
EXTEND 4" WL & TEMPORARY CONNECT TO EX 10" WL TO SERVE CASINO 3 WHILE RECONSTRUCTING EX 10" WL
NEW 10" GATE VALVE
CONNECT NEW 4" DOMESTIC WATER LINE TO CASINO 4 TO RECONSTRUCTED 10" WL WITH NEW 4" GATE VALVE
NEW 12" PVC SCH 40 PRESSURE PIPE AND OTHER CONNECTIONS / FITTINGS FOR ROOF DRAINS
NEW RETAINING WALL TAPERED
EXISTING 8" SS (TO REMAIN)
Water Vault (WM) (Full of Water)
EXISTING MANHOLE TR=648.01 FL=639.34 6" RCP N.W. FL=639.34 18" RCP N.W.-S.E.
2-4" MTL Stubs
EMH TR=642.89
SSMH TR=643.01 FL=636.03 12" PVC N.W.-S.W.
SSMH (Sound Only, Covered w/Asphalt) TR=642.79
SSMH TR=642.62 FL=633.98 12" PVC N.W.-N.W.
Vault
Finished Floor EL=659.74
Finished Floor EL=650.79
Top of WV Nut EL=641.75
Top of WV Nut EL=641.33
Top of WV Nut EL=640.80
Top of WV Nut EL=640.09
Top of WV Nut EL=642.20
Top of WV Nut EL=642.29
Top of WV Nut EL=641.75
WMH (WV) TR=640.09
SSMH TR=650.83 FL=640.79 12" S.W.-S.E.
SSMH TR=640.12" S.W. FL=641.12" S.E.
SSMH TR=642.79 FL=636.72 8" PVC, S.E.
SSMH TR=642.79 FL=636.72 8" PVC, S.E.
SSMH TR=642.79 FL=636.72 8" PVC,



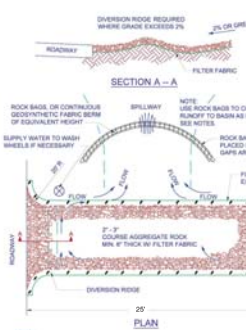
NOTES:

1. PLACE CURB TYPE ROCK BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNOFF.
2. BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
3. LEAVE ONE SANDBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SPILLWAY, ON IN THE CENTER IF PONDING IS NEEDED ON BOTH SIDES.
4. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT. SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.

ROCK BAG CURB INLET BARRIER



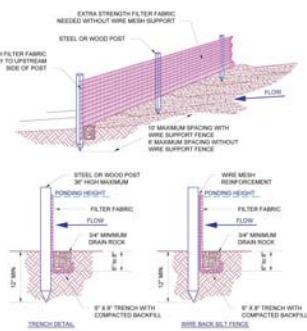
CONCRETE WASHOUT DETAILS



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.

TEMPORARY ROCK CONSTRUCTION ENTRANCE/EXIT



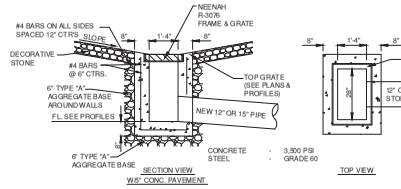
NOTES:

1. MUST BE INSTALLED PROPERLY TO AVOID NOTICE OF VIOLATION.
2. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE POUNDING EFFICIENCY.
3. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. ACCUMULATED SEDIMENT SHOULD BE REMOVED FROM THE FENCE BASE WHEN THE SEDIMENT REACHES ONE-THIRD TO ONE-HALF THE FENCE HEIGHT.
4. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

SILT FENCE

EROSION CONTROL NOTES:

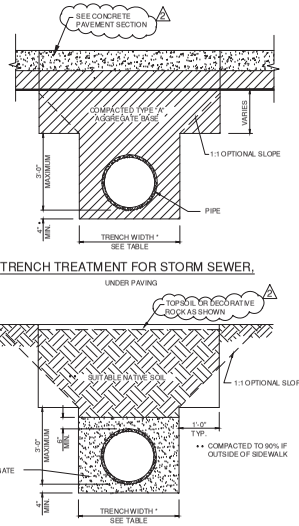
1. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES FOR SOIL EROSION CONTROL. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
2. THE CONTRACTOR SHALL DENOTE ON THE PLANS THE CONSTRUCTION EMPLOYEE PARKING, STORAGE AREA, EQUIPMENT STORAGE AND JOB TRAILERS INCLUDING UTILITIES AND EROSION CONTROLS.
3. ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE EXECUTION OF ANY CLEARING & GRUBBING OR GRADING WORK AND MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT. FAILURE TO INSTALL AND MAINTAIN EROSION CONTROL IS A VIOLATION OF STATE AND FEDERAL LAW AND SUBJECT TO FINE.
4. THE APPROPRIATE EROSION CONTROL DEVICE(S) SHALL BE INSTALLED PRIOR TO THE INCEPTION OF ANY LAND DISTURBING ACTIVITY AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST.
5. ALL EROSION CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARDS PRESCRIBED IN THE CURRENT GUIDELINES FOR STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED IMMEDIATELY AFTER RAIN STORMS, AND RESTORED AS NECESSARY IMMEDIATELY.
6. BAG ROCK INLET FILTER & SILT FENCE INCLUDING STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED PER DETAIL SHOWN ON THIS SHEET.
7. SEDIMENT COLLECTED BEHIND THE BAG ROCK INLET FILTER & SILT FENCES SHALL BE REMOVED WHEN SEDIMENT REACHES ONE THIRD THE HEIGHT OF THE BARRIER.
8. ROCK BAG FILTER AND SILT FENCES SHALL BE INSPECTED AND MAINTAINED NO LESS THAN WEEKLY OR WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.50 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT LIMITED TO SEDIMENT REMOVAL, BARRIER REPAIR AND/OR REPLACEMENT.
9. CONSTRUCTION SITE ENTRANCE: THE CONTRACTOR SHALL CONSTRUCT AS A MINIMUM ONE STABILIZED CONSTRUCTION ENTRANCE AT THE LOCATION SHOWN ON THE PLANS. IF ADDITIONAL INGRESS AND EGRESS TO THE CONSTRUCTION SITE IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER & CITY FOR ADDITIONAL STABILIZED ENTRANCES. USAGE OF NON-STABILIZED POINTS OF INGRESS AND EGRESS WILL NOT BE PERMITTED. THE STABILIZED ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY AND PAVED DRIVING LANES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT. REPAIR OF THE ENTRANCES OR CLEANING OF THE RIGHT OF WAY AND PAVED DRIVING LANES THAT HAVE BEEN SOILED SHALL BE PERFORMED BY THE CONTRACTOR AT HIS OWN EXPENSE SATISFACTORY TO THE ENGINEER AND/OR CONSTRUCTION MANAGER. WHEN NECESSARY VEHICLE WHEELS AND TIRES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING ONTO PUBLIC RIGHTS OF WAY AND PUBLIC STREETS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A STABILIZED AREA WITH CRUSHED STONE. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM SEWERS MUST BE REMOVED IMMEDIATELY.
10. THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PERIODICALLY WATER THE SITE TO CONTROL DUST.
11. SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED FOLLOWING CONSTRUCTION OR UPON PERMANENT STABILIZATION OF THE DISTURBED AND GRADED AREAS, WHICHEVER OCCURS LAST.
12. WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR 14 DAYS THE DISTURBED AREAS SHALL BE STABILIZED WITH SEED AND MULCH (SEE TEMPORARY EROSION CONTROL).
13. ON-SITE AND OFFSITE SOIL STOCKPILES SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
14. ALL DISTURBED AREAS TO BE SOLID SLAB SOD.



STORM INLET DETAILS
STRUCTURES 1, 2 & 3

NOT TO SCALE

NOTE: ROOF DRAINS TO BE TIED TO STRUCTURES 1 & 3



TRENCH TREATMENT FOR STORM SEWER,

UNDER PAVING

TRENCH TREATMENT FOR STORM SEWER,

NOT UNDER PAVING

CONSTRUCTION NOTES - BEDDING & BACKFILL

1. BEDDING AND BACKFILL MATERIAL SHALL CONSIST OF MATERIAL MEETING ODOT SECTION 703.1 TYPE A. IT SHALL MEET THE FOLLOWING GRADATION:

SIEVE SIZE (SQUARE)	PERCENT PASSING
3 INCH	100
1 1/2 INCH	100
3/4 INCH	40-100
3/8 INCH	30-75
NO. 4	25-60
NO. 10	20-43
NO. 40	8-26
NO. 200	4-12

* THE MATERIAL PASSING THE NO. 200 SIEVE SHALL NOT BE GREATER THAN 2/3 OF THE AMOUNT OF MATERIAL PASSING THE NO. 40 SIEVE.

2. BACKFILL MATERIAL SHALL BE PLACED IN 8" LIFTS AND SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY AS MEASURED BY AASHTO T-180 METHOD D. COMPACTION SHALL BE DONE BY A VIBRATORY HAND TAMPER.
3. ANY EXCESS EXCAVATION NOT USED FOR BACKFILL WILL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF, BY HIM, IN A MANNER APPROVED BY THE ENGINEER. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A WATERSHED DEVELOPMENT PERMIT IF EXCESS MATERIAL IS TO BE DISPOSED OF OFFSITE.
4. NORMAL BACKFILLING OPERATIONS SHALL FOLLOW BEDDING AND PIPE INSTALLATION AS CLOSELY AS PRACTICAL. IN NO CASE SHALL A PIPE INSTALLATION SUBJECT TO SUDDEN FLOW DEVELOPMENT BE LEFT WITHOUT SUFFICIENT BACKFILL TO RESTRAIN THE CONDUIT AND PREVENT JOINT SEPARATION AND/OR PIPE SCOUR. PHYSICALLY RESTRAINING THE CONDUIT MAY BE USED TO AUGMENT OR REPLACE THIS IMMEDIATE BACKFILL REQUIREMENT.
5. THE COST OF ALL TRENCHING, BEDDING AND BACKFILL MATERIAL, AND PLACEMENT AND COMPACTION OF BEDDING AND BACKFILL AS SHOWN WILL BE INCLUDED IN THE COST OF THE PIPE.

TRENCH WIDTH TABLE	
PIPE SIZE	TRENCH WIDTH *
12" AND LESS	30"
18" - 21" INCL.	I.D. + 24"
24" - 30" INCL.	I.D. + 30"
33" - 54" INCL.	I.D. + 42"
60" AND LARGER	I.D. + 54"
R.C.B.	I.D. + 48"

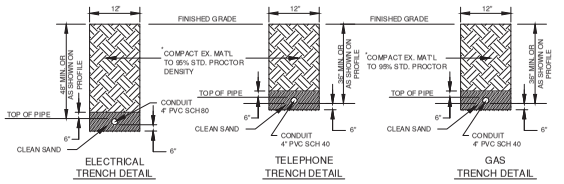
* MINIMUM

UTILITY NOTES:

1. THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE AND EXCAVATION BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF EXISTING UTILITIES.
2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES BEFORE CONNECTING TO ANY EXISTING LINES. CONTRACTOR SHALL COORDINATE AND SCHEDULE TIE-INS/CONNECTIONS WITH ALL UTILITY COMPANIES/OWNERS.
3. ALL UNDERGROUND LINES INSTALLED SHALL BE INSPECTED AND APPROVED BY THE CONTRACTORS TESTING LAB AND/OR UTILITY COMPANY HAVING AUTHORITY PRIOR TO BACKFILLING.
4. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
5. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO CONSTRUCTION, ADJUSTMENT, OR RELOCATION OF EXISTING UTILITIES AS DESIGNATED ON THE PLANS.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TAP AND TIE IN FEES REQUIRED, AS WELL AS COSTS OF UNDERGROUND SERVICE CONNECTIONS TO THE BUILDING.
7. CONTRACTOR SHALL PROVIDE ALL CONDUITS NECESSARY AS SHOWN ON THE PLANS. VERIFY LOCATION OF UTILITY TIE IN AND PROVIDE NYLON PULL CORDS INSIDE CONDUITS.
8. CONTRACTOR SHALL KEEP A DAILY AS-BUILT DRAWING ALONG WITH **PICTURES** OF ALL OF THE UNDERGROUND UTILITIES PRIOR TO BACKFILLING. PICTURES SHALL BE GIVEN TO ENGINEER AND ARCHITECT ON A MONTHLY BASIS.
9. ELECTRICAL CONDUIT SHALL BE PVC SCH 40 (GRAY); TELEPHONE/FIBER CONDUITS PVC SCH40 (WHITE) AND IRRIGATION CONDUITS PVC SCH40 (WHITE). ALL CONDUITS SHALL BE INSTALLED WITH PULL STRINGS.
10. COORDINATE WITH ALL BUILDING CONNECTIONS SHOWN ON THE MECHANICAL/ELECTRICAL/PLUMBING PLANS.
11. ALL STORM SEWER PIPE TO BE ADS HP STORM GRAY PIPE AND PVC SCH 40 PRESSURE PIPE AS SHOWN.

GENERAL NOTES:

1. ALL GRADING, PAVING, STORM SEWER, WATER, SANITARY, AND UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE OKLAHOMA DEPARTMENT OF TRANSPORTATION 2009 STANDARD SPECIFICATIONS & STANDARDS. ALL CONSTRUCTION TESTING SHALL BE IN ACCORDANCE WITH OKLAHOMA DEPARTMENT OF TRANSPORTATION (O.D.O.T.) 2009 MATERIAL AND TESTING eGuide, FIELD SAMPLING, TESTING AND ACCEPTED GUIDES . GRADING & COMPACTION & ANY SELECT MATERIAL FOR THE BUILDING SHALL BE PER THE GEO-TECHNICAL REPORT.
2. PHYSICAL TESTING FOR QUALITY ASSURANCE AND WATERLINE AND SANITARY CONSTRUCTION SHALL ALSO MEET OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY TITLE 252, CHAPTER 626 "PUBLIC WATER SUPPLY CONSTRUCT STANDARDS" AND TITLE 252, CHAPTER 656 " WATER POLLUTION CONTROL FACILITY CONSTRUCTION STANDARDS."
3. PHYSICAL TESTING FOR QUALITY ASSURANCE INCLUDING BUT NOT LIMITED TO. WATER PRESSURE TESTING AND DISINFECTION OF WATER MAINS AS REQUIRED SHALL BE THE RESPONSIBILITY OF A INDEPENDENT THIRD PARTY TESTING BY THE CONTRACTOR AND NOT THE OWNER. PRESSURE/LEAKAGE TESTING PER AWWA-C-600 AND DISINFECTION PER AWWA-C-651. SEWER CONTRACTOR WILL BE REQUIRED TO VACUUM TEST ALL MANHOLES ACCORDING TO AS TM C2244-11(2017) AND CONDUCT HYDROSTATIC LEAKAGE OF THE LINES PER ASTM F1417-11A(2015).
4. CONTRACTOR SHALL GIVE THE NOTIFICATION CENTER OF THE OKLAHOMA 'ONE-CALL SYSTEM INC'. NOTICE OF ANY EXCAVATION NO SOONER THAN TEN DAYS OR LATER THAN 72 HOURS (EXCLUDING SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS), PRIOR TO COMMENCEMENT OF WORK. PHONE 1-800-522-6543.
5. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE DRAWINGS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESES DRAWINGS AND WE ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF THEIR DEPICTED LOCATION ON THESE DRAWINGS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN, AND ALL OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE DRAWINGS BY VERIFICATION OF THEIR LOCATION IN THE FIELD PRIOR TO THE INITIATION OF THE ACTUAL PORTION OF THEIR WORK.
6. ALL CONSTRUCTION STAKING SHALL BE PERFORMED BY LICENSED SURVEYOR. ELECTRONIC DATA WILL BE MADE AVAILABLE TO THE SURVEYOR FOR HIS USE.
7. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE TRIBAL, FEDERAL, STATE AND LOCAL LAWS GOVERNING SAFETY, HEALTH, AND SANITATION. THE CONTRACTOR SHALL PROVIDE ALL SAFEGUARDS, SAFETY DEVICES AND PROTECTIVE EQUIPMENT, AND TAKE ANY OTHER NEEDED ACTIONS ON HIS OWN RESPONSIBILITY OR AS THE ENGINEER MANY DETERMINE REASONABLY NECESSARY TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF THE WORK COVERED BY THE CONTRACT. THE CONTRACTOR SHALL COMPLY WITH THE LATEST OSHA REGULATIONS.
8. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS REQUIRED.
9. ALL DIMENSIONS SHALL BE COORDINATED WITH ENGINEER. AN ELECTRONIC FORMAT WILL BE AVAILABLE TO SURVEYOR.
10. THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A DISCREPANCY OR INCONSISTENCY IS IDENTIFIED ON THE PLANS AND/OR SPECIFICATIONS IMMEDIATELY.
11. CONTRACTOR SHALL KEEP ON SITE A CURRENT SET OF THE APPROVED CONSTRUCTION WORKING DRAWINGS AT ALL TIMES. THE CONTRACTOR SHALL MARK (IN RED) ALL APPROVED CHANGES INCURRED FOLLOWING APPROVAL OF THE INITIAL DRAWINGS. THESE CHANGES MAY BE INITIATED FROM FIELD CONDITIONS OR CHANGES MADE BY THE DESIGN ENGINEER. EXCEPT FOR MINOR FIELD ADJUSTMENTS, ALL CHANGES SHALL BE REVIEWED AND AGREED TO BY THE DESIGN ENGINEER PRIOR TO FINAL APPROVAL OF THE PROJECT. THE CONTRACTOR SHALL SUBMIT THE WORKING DRAWINGS TO THE DESIGN ENGINEER AFTER FINAL INSPECTION OF THE PROJECT TO SERVE AS A BASIS FOR DEVELOPMENT OF THE FINAL AS-BUILT RECORD DRAWINGS.



TYPICAL TRENCH DETAIL FOR CONDUITS

NOT TO SCALE

*USE TYPE "A" AGGREGATE BASE UNDER PARKING LOT AND ROADWAYS.

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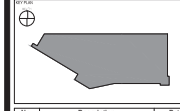
PROJECT: CHEROKEE HARD ROCK HOTEL AND CASINO

PROJECT: CASINO 4



No.	Description	Date
2	Addendum No. 2	05-04-2018

SHEET TITLE: UTILITY TYPICAL SECTIONS & NOTES AND SOIL EROSION CONTROL DETAILS

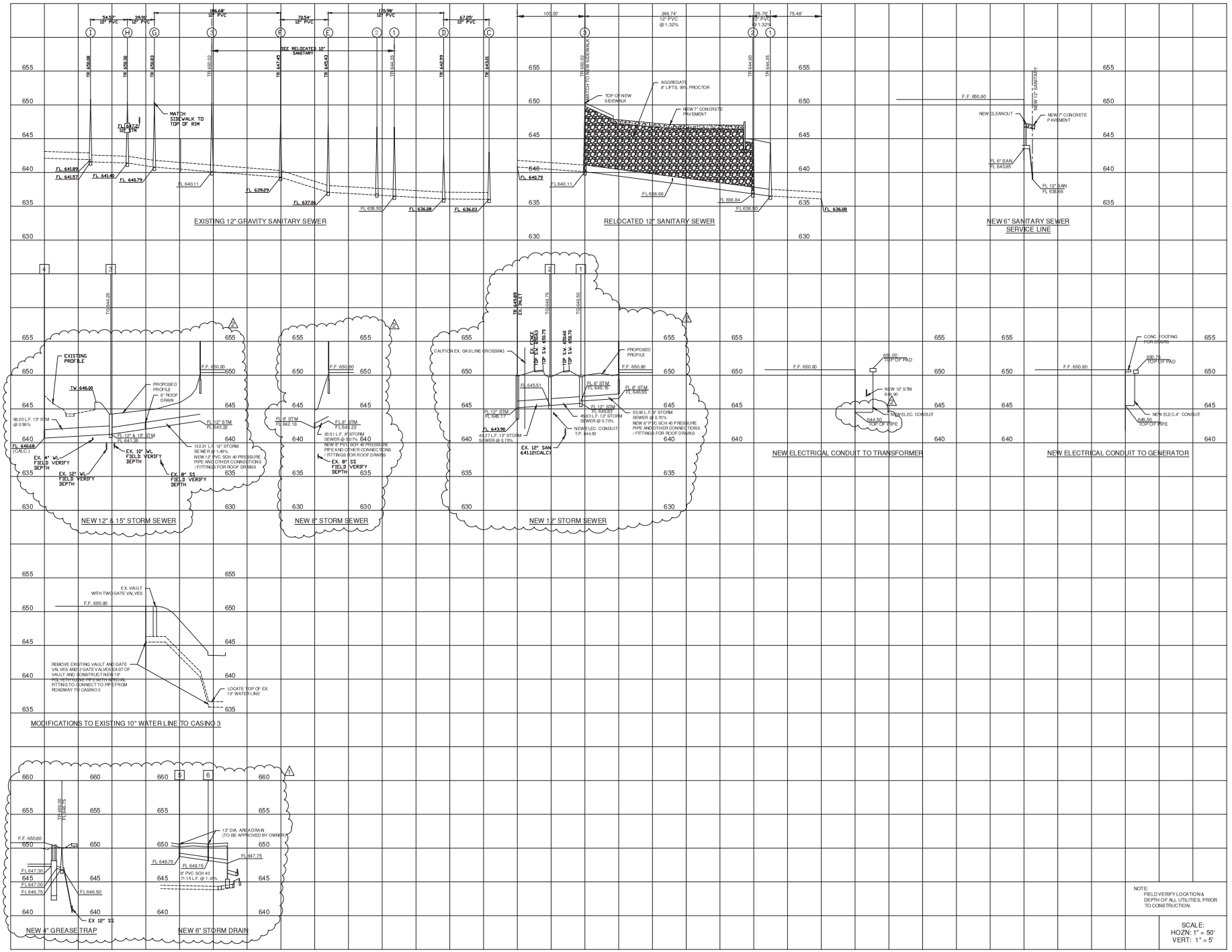
CIVIL PACKAGE

PROJECT NO. 201704
DRAWN BY J.K.
CHECKED R.K.
REVISED: March 20, 2018

C-109

Scale

REGISTERED PROFESSIONAL ENGINEER RICHARD L. KOSMAN 11234 OKLAHOMA



NOTE:
FIELD VERIFY LOCATION & DEPTH OF ALL UTILITIES, PRIOR TO CONSTRUCTION.

SCALE:
HOZN: 1" = 50'
VERT: 1" = 5'

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PROJECT:
CHEROKEE HARD ROCK HOTEL AND CASINO

PROJECT
CASINO 4

KEY PLAN

No.	Description	Date
1	Addendum No. 1	04-06-2018
2	Addendum No. 2	05-04-2018

SHEET TITLE
UTILITY PROFILES

CIVIL PACKAGE

PROJECT NO: 201704
DRAWN BY: J.K.
CHECKED: R.K.
DATE OF ISSUE: March 23, 2018

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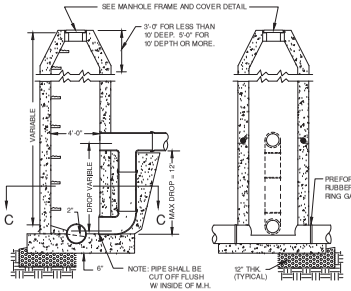
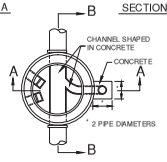
C-110

Scale



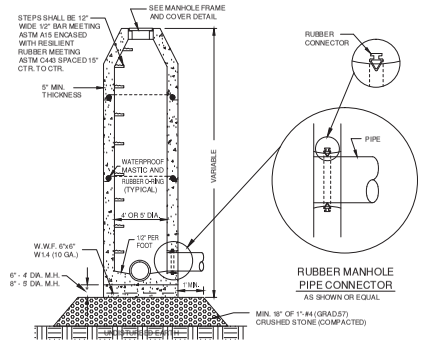
SECTION A-A

SECTION B-B



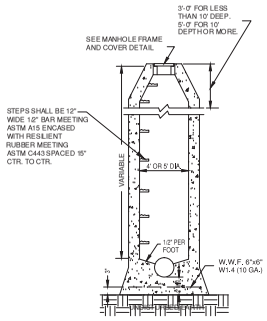
SECTION C-C

STANDARD DROP MANHOLE



PRE-CAST MANHOLE

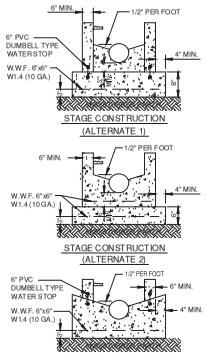
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL



CAST-IN-PLACE MANHOLE
W/ ECCENTRIC TAPER

NOTES:

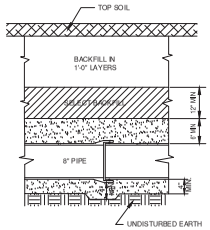
1. CAST IN PLACE MANHOLES SHALL HAVE ECCENTRIC ENTRANCES AND SHALL BE EITHER THE FLAT SLAB OR ECCENTRIC TAPER TYPE, SUBJECT TO THE SPECIFIED RESTRICTIONS.
2. FOOTINGS AND LOWER WALLS, AND SHALL BE PLACED AND VIBRATED IN ONE FOOT LIFTS.
3. THE ENGINEER OR ITS REPRESENTATIVE MUST BE PRESENT BEFORE AND DURING THE PLACING OF THE CONCRETE.
4. THIS MANHOLE SHALL NOT BE USED IN PAVED STREETS OR OTHER TRAVELED AREAS.
5. THE CONCRETE MUST SET FOR 48 HOURS BEFORE PIPE INSIDE OF MANHOLE IS TRIMMED.
6. (ALTERNATE 3) INVERT MUST BE FORMED AT TIME OF BOTTOM POUR.
7. WATER STOPS MAY BE ELIMINATED IF BARREL OF MANHOLE IS POURED WITHIN 4 HOURS.
8. THE TOP STEP SHALL BE NOT MORE THAN 27" AND NOT LESS THAN 18" FROM THE TOP OF THE LID.
9. THE MINIMUM INVERT DEPTH SHALL BE 3/4 TIMES THE PIPE DIAMETER.



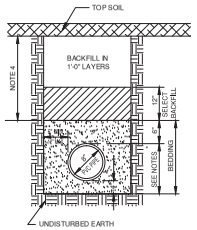
STAGE CONSTRUCTION (ALTERNATE 1)

STAGE CONSTRUCTION (ALTERNATE 2)

STAGE CONSTRUCTION (ALTERNATE 3)



LONGITUDINAL SECTION

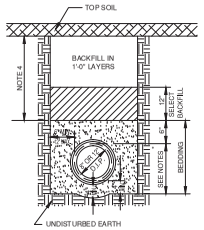


P.V.C. CROSS SECTION

*NOTES:

1. FOR DEPTH OF COVER 9'-0" USE STANDARD CLEAN SAND BEDDING (CLASS II)
2. FOR DEPTH OF COVER 9'-0" USE 3/4" TO NO. 4 CLEAN CRUSHED STONE (GRAD. #67) FOR BEDDING (CLASS III).
3. SELECT BACKFILL SHALL BE EXISTING MATERIAL.
4. BACKFILL UNDER STREETS AND CURB & GUTTER SHALL BE TYPE "A" AGGREGATE TO BOTTOM OF BASE AGGREGATE FOR STREETS, COMPACTED IN 6" LIFTS.

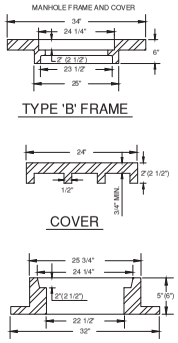
TYPICAL TRENCH DETAILS



D.I.P. CROSS SECTION

*NOTES:

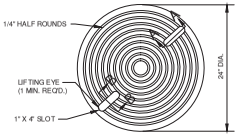
1. BEDDING SHALL BE SAND PLACED IN THE TRENCH SIMULTANEOUSLY ON BOTH SIDES OF THE PIPE AND HAND TAMPED TO ASSURE CONSOLIDATION.
2. AS AN ALTERNATE, BEDDING SHALL BE CLEAN CRUSHED STONE, 1/2" TO #4, (GRAD #7). THE CRUSHED STONE SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED 12 INCHES IN THICKNESS AND COMPACTED.
3. SELECT BACKFILL SHALL BE EXISTING MATERIAL.
4. BACKFILL UNDER STREETS AND CURB & GUTTER SHALL BE TYPE "A" AGGREGATE TO BOTTOM OF BASE AGGREGATE FOR STREETS, COMPACTED IN 6" LIFTS.



TYPE 'B' FRAME

COVER

TYPE 'A' FRAME



TOP PLAN OF COVER

*NOTES:

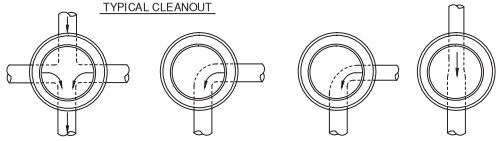
1. COVER SHALL BE MARKED WITH WORDS SANITARY SEWER.
2. MINIMUM WEIGHT OF STANDARD LID 100 POUNDS.
3. TYPE 'B' FRAME TO BE USED ON PRECAST MANHOLES ONLY, WHERE GRADE CLEARANCE IS A PROBLEM.
4. FURNISHED WITH MACHINED BEARING SURFACES.

STANDARD

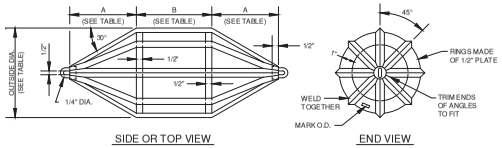
MINIMUM WEIGHT 280 POUNDS
BASS AND HAYS NO. 300-24,
NEENAH R= 1686 OR EQUAL

HEAVY DUTY, FOR IN STREET APPLICATION

MINIMUM WEIGHT 400 POUNDS
BASS AND HAYS NO. 400-24, NEENAH
R-1687 OR EQUAL



TYPICAL MANHOLE INVERT DETAILS



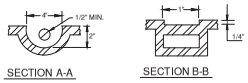
SIDE OR TOP VIEW

END VIEW

TESTING MANDRELL

SIZE	A	B	PVC PIPE SDR 35		ABS & PVC COMPOSITE PIPE	
			MANDRELL O.D. (IN.)	BASE INSIDE DIA. (IN.)	MANDRELL O.D. (IN.)	AVG. INSIDE DIA. (IN.)
8	5.3"	6"	7.28	7.665	7.36	7.75
10	6.7"	6"	9.08	9.563	9.26	9.75
12	8.0"	8"	10.79	11.361	11.16	11.75

MANDRELL SIZES



SECTION A-A

SECTION B-B

LIFTING EYE DETAIL

NOTES:

1. 8" TO 18" PIPE - MH 4' I.D
2. 21" TO 36" PIPE - MH 5' I.D
3. LARGER THAN 36" PIPE - SPECIAL MH
4. MANHOLE STEPS SHALL BE INSTALLED

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FOOD SERVICES
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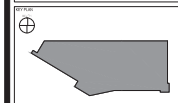
Suite 201
Tulsa, OK 74133
918-835-8038

PROJECT: CHEROKEE HARD ROCK HOTEL AND CASINO

PROJECT: CASINO 4

KEY PLAN



No.	Description	Date

SHEET TITLE: SANITARY SEWER DETAILS

CIVIL PACKAGE

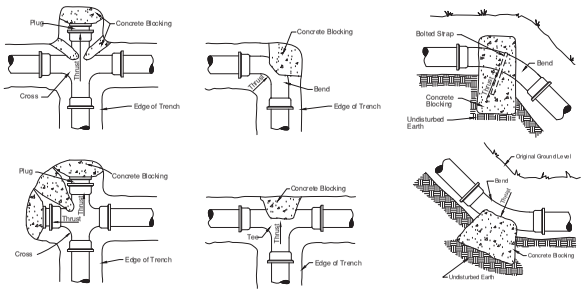
PROJECT NO: 201704
DRAWN BY: J.K.
CHECKED: R.K.
DATE/EDT: March 20, 2018

C-111

Scale

REGISTERED PROFESSIONAL ENGINEER RICHARD L. KOSMAN 11234 OKLAHOMA

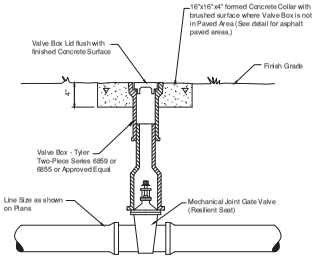
3/27/18



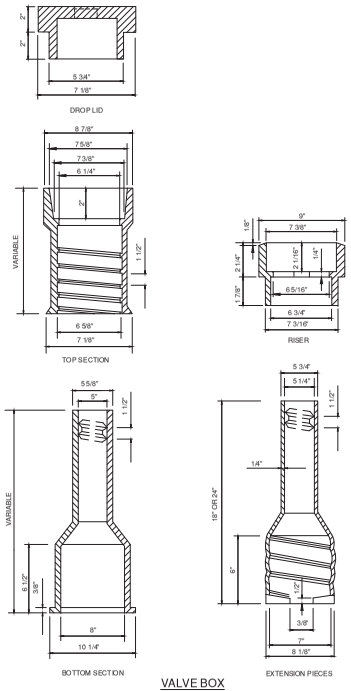
HORIZONTAL FITTINGS
Not To Scale

VERTICAL BENDS
Not To Scale

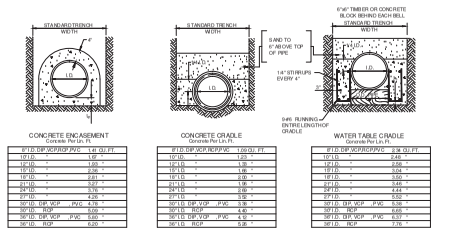
THRUST BLOCKING
Not To Scale



PIPING & VALVE BOX (non-paved areas)
Not To Scale



VALVE BOX
(CAST IRON)
Not To Scale



CONCRETE ENCASEMENT
Concrete Per Lin. Ft.

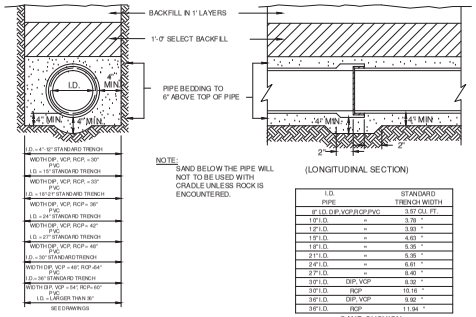
8" I.D. DIP, VCP, RCP, PVC	1.0	CU. FT.
10" I.D. "	1.67	"
12" I.D. "	1.83	"
15" I.D. "	2.56	"
18" I.D. "	2.81	"
21" I.D. "	3.07	"
24" I.D. "	3.33	"
27" I.D. "	4.25	"
30" I.D. DIP, VCP PVC	4.78	"
30" I.D. RCP "	5.03	"
36" I.D. DIP, VCP PVC	6.00	"
36" I.D. RCP "	6.25	"

CONCRETE CRADLE
Concrete Per Lin. Ft.

8" I.D. DIP, VCP, RCP, PVC	1.05	CU. FT.
10" I.D. "	1.23	"
12" I.D. "	1.38	"
15" I.D. "	1.66	"
18" I.D. "	2.00	"
21" I.D. "	1.06	"
24" I.D. "	3.50	"
27" I.D. "	4.25	"
30" I.D. DIP, VCP PVC	5.16	"
30" I.D. RCP "	4.45	"
36" I.D. DIP, VCP PVC	4.92	"
36" I.D. RCP	5.26	"

WATER TABLE CRADLE
Concrete Per Lin. Ft.

8" I.D. DIP, VCP, RCP, PVC	2.14	CU. FT.
10" I.D. "	2.48	"
12" I.D. "	2.68	"
15" I.D. "	3.04	"
18" I.D. "	3.50	"
21" I.D. "	3.44	"
24" I.D. "	4.44	"
27" I.D. "	5.25	"
30" I.D. DIP, VCP PVC	6.08	"
30" I.D. RCP "	6.65	"
36" I.D. DIP, VCP PVC	6.57	"
36" I.D. RCP	7.76	"



TYPICAL SAND CUSHION
STANDARD TRENCH WIDTH
(CROSS SECTION)

NOTE:
SAND BELOW THE PIPE WILL NOT TO BE USED WITH CRADLE UNLESS ROCK IS ENCOUNTERED.

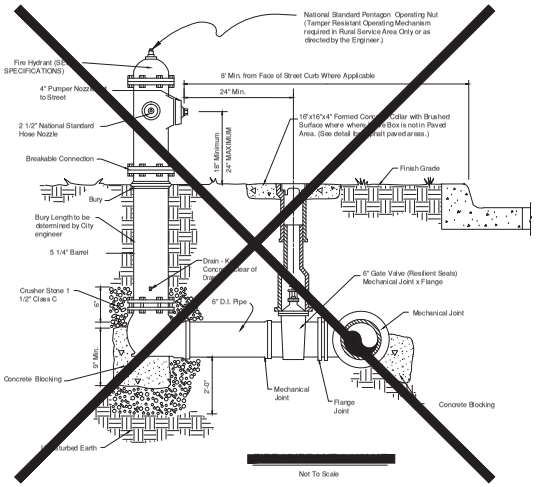
(LONGITUDINAL SECTION)

I.D. PIPE		STANDARD TRENCH WIDTH
8" I.D. DIP, VCP, RCP, PVC		3.17 CU. FT.
10" I.D.	=	3.78 "
12" I.D.	=	3.93 "
15" I.D.	=	4.63 "
18" I.D.	=	5.35 "
21" I.D.	=	5.35 "
24" I.D.	=	6.61 "
27" I.D.	=	8.40 "
30" I.D.	DIP, VCP	9.12 "
30" I.D.	RCP	10.16 "
36" I.D.	DIP, VCP	9.92 "
36" I.D.	RCP	11.34 "

SAND CUSHION
Sand Per Lin. Ft.

WATER LINE TRENCH
Not To Scale

1. ALL WATER LINES UNDER PAVEMENT SHALE BE BACKFILLED WITH 3/4" CRUSHED STONE BASE COMPACTED TO 95" STD. PROCTOR.



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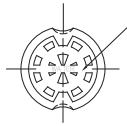

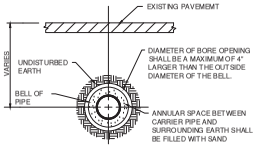

TYPICAL SECTION
INSTALLATION OF PIPE UNDER ROADWAY
Not To Scale

NOTES TO CONTRACTOR:
1. THIS DETAIL IS SUBMITTED AS AN APPROVED METHOD OF CONSTRUCTION FOR INSTALLATION OF PIPE UNDER ROADWAYS.
2. NO ADDITIONAL PAYMENT SHALL BE MADE FOR WORK INCIDENTAL TO THIS METHOD OF CONSTRUCTION.

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PROJECT
CHEROKEE HARD ROCK HOTEL AND CASINO

PROJECT
CASINO 4

KEY PLAN

No.	Description	Date
1	Addendum No. 1	04-06-2018

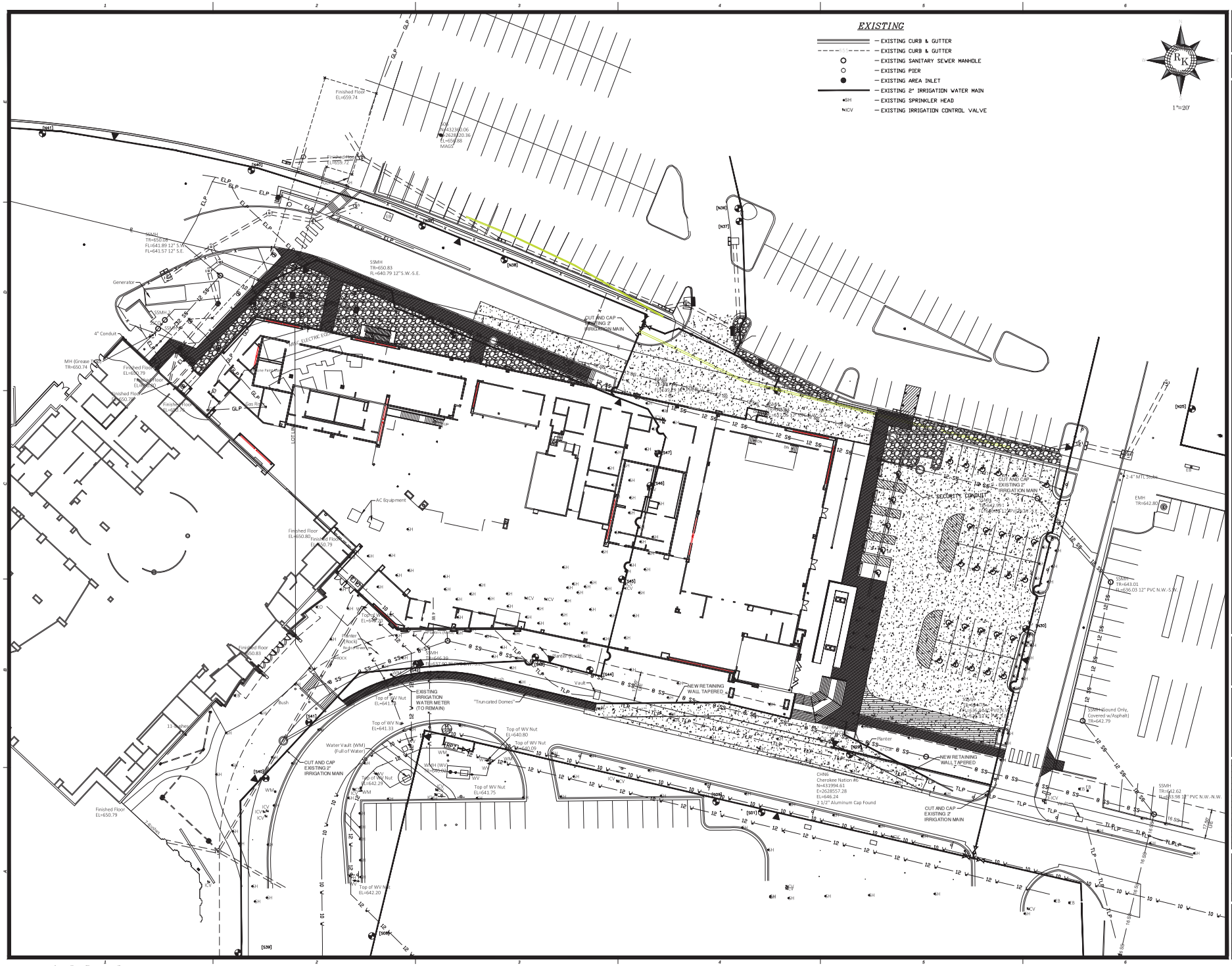
SHEET TITLE
WATER LINE DETAILS

CIVIL PACKAGE

PROJECT NO. 201704
DRAWN BY JK
CHECKED R.K.
DATE DATE: March 22, 2018

REGISTERED PROFESSIONAL ENGINEER RICHARD L. KOSMAN 11234 OKLAHOMA

C-112
Scale



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PROJECT
CHEROKEE HARD ROCK HOTEL AND CASINO

PROJECT
CASINO 4

KEY PLAN

No.	Description	Date

SHEET TITLE
IRRIGATION PLAN FOR DEMOLITION ONLY

CIVIL PACKAGE

PROJECT NO: 201704
DRAWN BY: J.K.
CHECKED: R.K.
DATE/TIME: March 20, 2018

C-113

Scale

REGISTERED PROFESSIONAL ENGINEER
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11234
OKLAHOMA